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MOUNT DENNIS CHILDCARE CENTRE 1234 WESTON ROAD TORONTO, ON

Coolearth architecture inc. **CS&P**Architects Inc.

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A9.04	MILLWORK TYPICAL DETAILS
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MECHANICAL SITE PLAN
UNDERGROUND PIPING PLUMBING & DRAINAGE
BASEMENT FLOOR PLAN
PLUMBING & DRAINAGE BASEMENT FLOOR PLAN
PLUMBING & DRAINAGE GROUND FLOOR PLAN
PLUMBING & DRAINAGE SECOND FLOOR PLAN
H.V.A.C. BASEMENT FLOOR PLAN
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H.V.A.C. SECOND FLOOR PLAN
FIRE PROTECTION BASEMENT FLOOR PLAN
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FIRE PROTECTION ROOF PLAN
H.V.A.C. MECHANICAL ROOM PLAN
MECHANICAL ROOM MAIN PIPING SCHEMATIC AND
SECTIONS
MECHANICAL SCHEMATICS & DETAILS
MECHANICAL SCHEMATICS & DETAILS
MECHANICAL SCHEMATICS & DETAILS
MECHANICAL SCHEDULES

ELECTRICAL

ELECTRICAL DETAILS AND SCHEDULES SITE PLAN ELECTRICAL LIGHTING LAYOUT BASEMENT FLOOR PLAN LIGHTING LAYOUT GROUND FLOOR PLAN LIGHTING LAYOUT SECOND FLOOR PLAN POWER LAYOUT BASEMENT FLOOR PLAN POWER LAYOUT GROUND FLOOR PLAN POWER LAYOUT GROUND FLOOR PLAN POWER LAYOUT SECOND FLOOR PLAN POWER LAYOUT ROOF PLAN DETAILS, RISER DIAGRAM AND SINGLE LINE ELECTRICAL
DETAILS, RISER DIAGRAM AND SINGLE LINE
FIRE ALARM ZONES AND PANEL SCHEDULES



MOUNT DENNIS CHILDCARE CENTRE 1234 WESTON ROAD TORONTO, ON

TENDER

FOR

ISSUED

PROJECT NUMBER	ISSUE DATE
17026	JANUARY 17, 2020

SET NUMBER

General Notes

- 1 All work to conform to the latest City of Toronto standard drawings and specifications as well as the latest adopted Ontario Provincial Standard Drawings and Specifications.
- 2 All work shall be completed in accordance with the current "Occupational Health and Safety Act and Regulations for Construction Projects". The general contractor shall be deemed to be the constructor as defined in the act.
- 3 All temporary traffic control and signage during construction shall be in accordance with current Ontario Traffic Manual Book 7: Temporary Conditions Field Edition.
- 4 All trenches within existing right of way shall be backfilled with unshrinkable fill. Temporary repairs to utility cuts will be as per Municipal Consent Requirements, Appendix D, Temporary Repairs to Utility Cuts.
- 5 The contractor shall rectify all disturbed areas to the original condition or better and to the satisfaction of the Executive Director, Engineering and Construction Services.
- 6 Prior to commencing any work within the municipal right of way, the contractor will obtain all necessary road occupancy permits from the City's right-of-way management unit. Contact 416-394-8422.

Sanitary & Storm Sewers

- 1 Main line PVC pipe as per DR 35 CSA B182.2-06 certified ASTM D3034-04a, F679-03. Service connection PVC pipe to be as per DR 28 CSA B182.2-06 certified ASTM D3034-04a.
- 2 Bedding for flexible pipe shall be as per OPSD 802.010, 802.013 or 802.014.
- 3 Ultra-rib pipe is not permitted within the municipal right of way. 4 Maintenance holes as per City of Toronto standard,
- T-701.010 (1200mm), T-701.011 (1500mm), T-701.012-1 (1800mm) or T-701.013 (2400mm). Frame and cover as per OPSD 401.010 Type A closed (sanitary) Type B open (storm).
- 5 Benching shall be as per City of Toronto standard T-701.021.
- 6 Drop structures to be as per City of Toronto standard 1003.01 (External) and 1-1003.01-2 (Internal)
- 7 Sanitary service connections shall be single, 150 mmø minimum, PVC Class DR 28 installed at 2 percent and the colour shall be green, for single residential dwellings.
- 8 Sanitary maintenance hole shall have watertight frame and cover in ponding areas as per OPSD 401.030.
- 9 Reinforced concrete pipe shall be as per CSA A257.2-03 (minimum 65-D). Height of fill to be verified using OPSD tables 807.010 and 807.030.
- 10 Non-reinforced concrete pipe 150 mm to 250 mm shall be as per CSA A257.1-03 Class 3. Height of fill to be verified using OPSD tables 807.040.
- 11 Bedding for rigid pipe shall be Class B as per OPSD 802.030, 802.031, 802.032 or 802.033.
- 12 Single catchbasins shall be as per City of Toronto standard T-705.010 complete with goss trap. Frame and cover as per OPSD 400.070.
- 13 Double catchbasins shall be as per City of Toronto standard T-705.020 complete with goss trap.
- 14 Service connections and utility cuts to be backfilled with unshrinkable fill.
- 15 Catchbasin leads to be 200 mm PVC DR 35 for single catchbasins and 250 mm PVC DR 35 for double catchbasins unless otherwise noted.

Watermains

- 1 All service connections shall be constructed in accordance with T-1104.01, T-1104.02-1, T-1104.02-2, T-1105.02-1 and T-1105.02-2.
- 2 Watermain and watermain appurtenances shall conform to City of Toronto Material / Manufacturer Specifications. See Chapter 6, Material Specifications.
- 3 All polyvinyl chloride (PVC) pipes, ranging in size from 100mm through 300 mm in diameter, shall be Class 150, DR 18 and manufactured in accordance AWWA C900-07 and to CSA B137.3-05 and shall have cast iron outside diameter dimensions. All PVC pipe larger than 350 mm through 400 mm in diameter, shall be pressure rating 235, DR 18 and manufactured in accordance to AWWA C905-97 standard and CSA B137.3-05 and shall have cast iron outside diameter dimensions.
- 4 Bedding for flexible pipe shall be as per OPSD 802.010, 802.013 or 802.014.
- 5 Minimum cover on watermains will be 1.8 metres.
- 6 Provisions for flushing the water line prior to testing and so forth must be provided with at least a 50 mm outlet on 100 mm and larger lines as per T-1104.03-1. Copper lines are to have flushing points at the end, the same size as the line. On fire lines, flushing outlet to be 100 mm diameter minimum or a hydrant
- 7 All hydrants to be as per City of Toronto standard T—1105.01. It shall conform to City of Toronto Material / Manufacturer Specifications. See Chapter 6, Material Specifications.
- 8 Single water service connections shall be a minimum of 19 mmø and conform to ASTM B88—03 (ASTM B88M—05 for metric sizes) Type "K" soft copper as per T-1104.01.
- 9 All curb and valve boxes to be located at street line.
- 10 Mechanical thrust restraints shall be installed at all fittings, bends, tees, crosses, reducers and valves for all watermain sizes. Mechanical restraints at joints shall be installed within 6.1 metres of either side of the valve for watermains 300 mm diameter or larger. Mechanical thrust restraints shall conform to the material specifications contained in City of Toronto Material / Manufacturer Specifications. See Chapter 6, Material Specifications.
- 11 All tees, plugs, horizontal, vertical bends, reducers and hydrants to have concrete thrust blocks as per City of Toronto standard T-1103.01, T-1103.020.
- 12 Watermains must follow the Ministry of the Environment procedures that aovern the separation of sewers and watermains F-6-1. A minimum vertical clearance of 0.30 metre over, 0.5 metre under sewers and all other utilities when crossing. Must also maintain 2.5 metres horizontal separation with sewers.
- 13 All valves less than 400 mm will be in a valve and box as per City of Toronto standard T-1101.02-2. All valves 400 mm and larger will be in a chamber.
- 14 Sacrificial anodes to be installed for all metal pipes and appurtenances, water services and fittings as per City of Toronto standard T-1106.04, T-1106.05 and T-1106.06 construction specification T.S. 7.22.
- 15 Tracer wire installation as per City of Toronto construction specification T.S. 7.40.
- 16 All proposed water piping must be isolated from existing lines in order to allow independent pressure testing and chlorinating from the existing system. Flushing, swabbing, and testing of watermain as per Ontario Provincial Standards and Specifications (OPSS), as well as City of Toronto specification TS 7.30 or latest amendment.
- 17 After passing the hydrostatic pressure test and leakage test, chlorination can proceed. Sampling of the new mains is to be done at the required locations prior to connecting to the City watermain system. The tee fitting is to be cut into the existing watermain to make the connection. To maintain the pressure in the new main during installation of service, a 50 mm by-pass with an approved pressure differential backflow preventer, mounted above ground level is to be installed around the closed isolating valve.
- 18 City in-service water valves can only be operated by Toronto Water staff.
- 19 Watermains to be installed to grade as shown on approved plans, copy of grade sheet must be supplied to inspector prior to commencement of work, when requested by inspector.

KEY PLAN SCALE: N.T.S.

Watermain — Fill Areas

1 Pipes are not to be laid on fill until the field density test reports have been submitted and approved by the engineer.

- 2 Fill to be placed to a minimum of 600 mm above the watermain grades and to 3 metres minimum on each side prior to watermain laying compacted to a minimum of 100 percent standard proctor density in 300 mm lifts.
- 3 Soil density tests shall be taken along centreline of the watermain and on lines 1.5 metres on either side of same at a maximum interval of 30 metres. Tests to be taken at each 600 mm lift.
- 4 All hydrants, tees, valves, bends, plugs and each pipe joint are to be mechanically restrained.

5 Pipe joint deflections are not allowed.

Grading & Road / Pavements

1 All area grading and resulting drainage patterns shall not adversely affect adjacent lands.

- 2 The storm drainage shall be self contained within the subject property until it can be discharged, reused, infiltrated and/or evapotranspired in a manner acceptable to the City.
- 3 Minimum generally accepted gradient -2.0 percent.
- 4 Maximum generally acceptable gradient -5.0 percent.
- 5 Maximum acceptable slope 3 parts horizontal to 1 part vertical. 6 No alterations to existing boundary elevations or adjacent lands shall be undertaken unless written agreement with the adjacent property owner is obtained and submitted in a
- format acceptable to the City. 7 Minimum swale gradient -2.0 percent.
- 8 Minimum swale depth -150 mm.
- 9 All swales or ditches having a velocity in excess of 1.5 metres/ second shall be designed to incorporate erosion protection.
- 10 The minimum gradient on any driveway shall be 2.0 percent. The maximum driveway gradient is 8.0 percent.
- 11 Retaining walls shall be constructed entirely on the upper property so that tie backs (if required) do not cross property boundaries.
- 12 Maximum ponding depth of 0.3 metre.
- 13 Proposed spot elevations will be shown for asphalt, landscape or concrete areas. Unless otherwise noted top of curb elevations are 0.15 metre above asphalt elevations except at curb depressions and wheel chair ramps.
- 14 Where new asphalt matches existing asphalt, grind existing asphalt a minimum of 300 mm wide and 40 mm deep for keying. Apply hot rubber sealing compound in accordance with OPSS 1212. All surfaces to be tack coated with SS-1.
- 15 The concrete curb, concrete sidewalk (if applicable) and all restoration along fronting roadways to the site must be constructed and carried out in accordance with all applicable and current City of Toronto standards.
- City of Toronto standards include but not limited to:
- •T-350.01 -Urban Entrances •T-310.010-2 -Concrete Sidewalk with Boulevard
- •T-310.010-4 -Combined Concrete Curb and Sidewalk •T-310.050-1 -Vehicle Entrance in Combined Curb and Sidewalk
- •T-600.11-1 -Concrete Curb (Bordering Driveway Return Curb
- at Entrances) •T-600.05-1 -Concrete Curb and Gutter.

17 Minimum pavement requirements (superpave) for public right of way are as follows:

Material		Thickness of Pavement Elements (mm)	
Hot—Mix Asphalt	SP12.5 FC1 C Surface Course	40	
(OPSS 1151)	SP19.0 D Binder Course	135	
Granular Materials	Granular A Base	150	
(OPSS 1010)	Granular B Type II Subbase	150	
Prepared and Approved Subgrade			

Additional Road Improvement Notes:

- 1 Unless indicated otherwise, all work within the City right-of-way shall be constructed in accordance with City of Toronto design standards and specification and the undertaking. Ontario Provincial Standards may subject to the approval of the City of Toronto be used where no standard or specification is noted.
- 2 Any discrepancies between site conditions and the drawings must be reported to the consulting engineer/City prior to commencement of construction and appropriate action taken to the satisfaction of the City of Toronto.
- 3 All survey points shall be verified in the field by the contractor prior to the construction. Any discrepancies between the drawings and the layout shall be reported to the consulting engineer/City and the consulting engineer/City shall notify the City of the necessary changes.
- 4 No portion of the work shall be carried out without first having obtained approved construction drawings, approved project schedule(s), approved traffic staging plans and permits for such portion of the infrastructure work in accordance with the provisions hereof and giving 10 working days prior written notice to the Executive Director, Engineering and Construction Services that such work is to be carried out with such notice to specify the anticipated date of commencement of the work. A pre-construction coordination meeting with City staff is to be held a minimum of five working days prior to the commencement of any of the work.
- 5 The removal of trees requires the approval of Parks, Forestry and Recreation division (Contact Peter Dmystrasz, 416-494-8551) Supervisor, Urban Forestry).
- 6 All areas disturbed during construction within the City's right-of-way shall be restored to original or better condition. Grassed areas shall be provided with 100 mm of topsoil and shall be sodded as per T.S. 5.00 and T.S. 5.10.
- 7 The contractor shall refer to the Ontario Traffic Manual Book 7, Temporary Conditions for temporary construction signage.
- 8 Contractor to remove existing TTC bus stop and contact TTC staff.
- 9 Contractor shall verify and match existing pavement structure in depth and material. Any discrepancies between existing and latest standard pavement structure shall be reported to the consultant prior to commencement of construction and appropriate action taken to the satisfaction of the City of Toronto.
- 10 Any damage to property adjacent to the construction site shall be the responsibility of the contractor.
- 11 Concrete sidewalk to be complete with 150 mm granular base or as directed by the city inspector.

Erosion and Sediment Control

- 1 Sediment barriers, check dams, and temporary construction
- 2 All sediment control devices to be routinely inspected and maintained in proper working order until area is stabilized.
- 3 If necessary, trucks will be washed down before leaving the
- 5 All construction equipment must be parked on-site.
- 6 All construction activity will comply with City of Toronto Noise Bylaw.
- T-219.130-1.
- construction access. 9 All topsoil stockpiles to be surrounded with sediment control
- fencing. 10 Filter fabric to be placed under grates on all catchbasins to trap sediment. Silt traps are to be cleaned regularly and are not to be removed until such time as the curbs are constructed and the boulevards are sodded or backyards graded and sodded. Filter fabric for silt control to be TerraFix 270R or approved equivalent.
- 11 Filter cloth will be placed on the catchbasins on public street across the property's frontage.
- 12 In the case of any conflict with another plan, this plan prevails only in respect to construction measures and activities such as the construction access, silt fence, security fencing, sediment control, and mud mats.
- 13 Street sweeping, catch basin cleaning and dust control are the responsibility of the developer and must be kept under control on all roadways to the satisfaction of the City.



ACCEPTED TO BE IN ACCORDANCE WITH THE CITY OF TORONTO STANDARDS. THIS ACCEPTANCE IS NOT TO BE CONSTRUED AS VERIFICATION OF ENGINEERING CONTENT.

and specification.

ASHRAF HANNA, P.ENG., MANAGER OF DEVELOPMENT ENGINEERING - ETOBICOKE YORK DISTRICT



access to be installed prior to the beginning of construction.

4 The site will be wet down if necessary to control dust.

7 Sediment control fence to be as per City of Toronto standard

8 All construction vehicles to enter and exit site from temporary

IN TARANTA TECHNICAL SERVICE DIVISION

Accepted as to form in reliance upon the professional skill and ability of Masongsong Associates Engineering Limited, Consulting Engineers, as to design

Date

Key to Detail Location



Detail Number Drawing Number

If this sheet is not 33 1/8" x 23 3/8" (841 x 594 mm) It is a reduced print - Read dwg. accordingly.

Contractors must check and verify all dimensions on the job and report any discrepancies to the Architect before proceeding with the work.

All prints and specifications are the property of the Architect and must be returned at the completion of the work.

Drawings should not be scaled.	

No	Date	Revision/Issued
1	JUN 29, 2018	ISSUED FOR 50% CONTRACT DOCUMENTS
2	AUG 03, 2018	ISSUED FOR 75% CONTRACT DOCUMENTS
3	SEP 11, 2018	ISSUED FOR 95% COMPLETION
4	OCT 02, 2018	ISSUED FOR PERMIT
5	APR 05, 2019	ISSUED FOR TENDER CLIENT REVIEW
6	APR 26, 2019	ISSUED FOR TENDER
7	MAY 07, 2019	ISSUED FOR TENDER
8	JAN 17, 2020	ISSUED FOR TENDER

CONSULTANTS LIST ARCHITECT Coolearth Architecture Inc. 386 Pacific Ave. Toronto, ON, M6P 2R1 Phone: 416-868-9774 CS&P Architects 2345 Yonge St., Suite 200 Toronto, ON, M4P 2E5 Phone: 416-482-5002 STRUCTURAL ENGINEER Stephenson Engineering 2550 Victoria Park Ave Suite 602

Toronto, ON M2J 5A9

R Mancini and Associates

PMA Landscape Architects Ltd.

30 Martha St Suite 203

Bolton, ON L7E 5V1

Phone: 905-951-6292

359 Keele Street

Toronto, ON, M6P 2K6

Phone: 416-239-9818

Phone: 416-635-9970

MECHANICAL & ELECTRICAL ENGINEER

LANDSCAPE ARCHITECT

CIVIL ENGINEER

Masongsong Associates Engineering Ltd. 7800 Kennedy Road, S. 201 Markham, ON, L3R 2C7 Phone: 905-944-0162





MASONGSONG SUITE 201 MARKHAM, ONTARIO ASSOCIATES

T: (905) 944-0162

MOUNT DENNIS CHILDCARE CENTRE 1234 WESTON ROAD, TORONTO, ON M6M 4P8

GENERAL NOTES

scale: date: drawn: checked by: project number: drawing number:

1:250 04/06/18 A.S.C K.L 17-904

GN Revision: 1



	NOTES:
SUBJECT TO THE BUILDING AVENTION WITH THESE JDING, BUT NOT LIMITED TO,	 IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COMPLY WITH THE SEWER USE BY-LAW AND OBTAIN ALL APPROVALS/PERMITS FROM TORONTO WATER - ENVIRONMENTAL MONITORING & PROTECTION UNIT FOR ANY PROPOSED TEMPORARY OR PERMANENT DISCHARGING OF GROUNDWATER INTO THE MUNICIPAL SEWER SYSTEMS AND WATERCOURSES;
AND EXTERIOR BUILDING	• THE CONTRACTOR IS ALSO RESPONSIBLE FOR COMPLYING WITH ALL APPLICABLE PROVINCIAL REQUIREMENTS AND OBTAINING THE NECESSARY APPROVALS AND/OR PERMITS FROM THE MINISTRY OF THE ENVIRONMENT & CLIMATE CHANGE WITH REGARD TO ANY PROPOSED DEWATERING;
	 PRIOR TO COMMENCING ANY WORK WITHIN THE RIGHT OF WAY, THE CONTRACTOR WILL OBTAIN ALL NECESSARY ROAD OCCUPANCY PERMITS FROM THE CITY'S RIGHT OF WAY MANAGEMENT UNIT;
	REFER TO THE ACCEPTED ENGINEERING DRAWINGS FOR THIS SUBJECT SITE, PREPARED BY MASONGSONG ASSOCIATES ENGINEERING LTD. FOR ALL SITE SERVICING AND ABOVE GROUND CONNECTIONS INFORMATION.

\otimes	
\bigotimes	
— BT — — — —	

WATER METER LOCATION
PROPOSED WATER VALVE AND BOX
EXISTING CATCHBASIN
EXISTING SANITARY MANH
EXISTING STORM MANHOL
EXISTING HYDRANT
EXISTING VALVE & CHAM
EXISTING BELL
EXISTING TV CABLE
EXISTING GAS MAIN
EXISTING FIBRE OPTIC CA







= AREA x TANK HEIGHT ABOVE WATER BALANCE x VOID SPACE + STORAGE IN U/G SEWERS AND MH

SECTION D-D (STORMTANK-BRENTWOOD ST-24)

SCALE V 1:75 H 1:150



OF ENGINEERING CONTENT.



Key to Detail Location

NO. NO.

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7800 KENNEDY ROAD www.maeng.ca

MOUNT DENNIS CHILDCARE CENTRE 1234 WESTON ROAD, TORONTO, ON M6M 4P8



scale: date: drawn: checked by: project number: drawing number:

1:150 04/06/18 A.S.C K.L 17-904



TORONTO TECHNICAL SERVICE DIVISION

ACCEPTED TO BE IN ACCORDANCE WITH THE CITY OF TORONTO STANDARDS. THIS ACCEPTANCE IS NOT TO BE CONSTRUED AS VERIFICATION

Accepted as to form in reliance upon the professional skill and ability of Masongsong Associates Engineering Limited, Consulting Engineers, as to design and specification.

Date





Erosion and Sediment Control

- 1 Sediment barriers, check dams, and temporary construction access to be installed prior to the beginning of construction. 2 All sediment control devices to be routinely inspected and maintained in proper working order until area is stabilized.
- 3 If necessary, trucks will be washed down before leaving the
- 4 The site will be wet down if necessary to control dust. 5 All construction equipment must be parked on-site.
- 6 All construction activity will comply with City of Toronto
- 7 Sediment control fence to be as per City of Toronto standard
- 8 All construction vehicles to enter and exit site from temporary
- 9 All topsoil stockpiles to be surrounded with sediment control
- 10 Filter fabric to be placed under grates on all catchbasins to trap sediment. Silt traps are to be cleaned regularly and are not to be removed until such time as the curbs are constructed and the boulevards are sodded or backyards graded and sodded. Filter fabric for silt control to be TerraFix 270R or approved
- 11 Filter cloth will be placed on the catchbasins on public street across the property's frontage.
- 12 In the case of any conflict with another plan, this plan prevails only in respect to construction measures and activities such as the construction access, silt fence, security fencing, sediment
- 13 Street sweeping, catch basin cleaning and dust control are the responsibility of the developer and must be kept under control on all roadways to the satisfaction of the City.
- ALL CONSTRUCTION VEHICLES TO ENTER AND LEAVE THE SITE AT APPROVED LOCATION ONLY AS INDICATED ON THIS PLAN. 2. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES MAY BE REQUIRED AND SHALL BE INSTALLED AS DETERMINED
- INSTALL CONTROLLED CONSTRUCTION VEHICLE ACCESS ROUTE (MUD MAT). MUD MAT TO REMAIN UNTIL ROAD BASE IS STABILIZED IN PREPARATION FOR ASPHALT.
- APPROVED BY TRANSPORTATION SERVICES AS PART OF THE



ACCEPTED TO BE IN ACCORDANCE WITH THE CITY OF TORONTO STANDARDS. THIS ACCEPTANCE IS NOT TO BE CONSTRUED AS VERIFICATION

Accepted as to form in reliance upon the professional skill and ability of Masongsong Associates Engineering Limited, Consulting Engineers, as to design

Date

Key to Detail Location



Detail Number Drawing Number

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No	Date	Revision/Issued
1	JUN 29, 2018	ISSUED FOR 50% CONTRACT DOCUMENTS
2	AUG 03, 2018	ISSUED FOR 75% CONTRACT DOCUMENTS
3	SEP 11, 2018	ISSUED FOR 95% COMPLETION
4	OCT 02, 2018	ISSUED FOR PERMIT
5	APR 05, 2019	ISSUED FOR TENDER CLIENT REVIEW
6	APR 26, 2019	ISSUED FOR TENDER
7	MAY 07, 2019	ISSUED FOR TENDER

8 JAN 17, 2020 ISSUED FOR TENDER



CIVIL ENGINEER

PROJECT



Masongsong Associates Engineering Ltd.

7800 Kennedy Road, S. 201

Markham, ON, L3R 2C7 Phone: 905-944-0162

MASONGSONG SUITE 201 MARKHAM, ONTARIO ASSOCIATES

T: (905) 944-0162

MOUNT DENNIS CHILDCARE CENTRE 1234 WESTON ROAD, TORONTO, ON M6M 4P8



scale: date: drawn: checked by: project number: drawing number:

1:150 04/06/18 A.S.C K.L 17-904





- REFER TO CIVIL DRAWINGS FOR SITE GRADING.

REFER TO ARCHITECTURE FOR ALL FENCING. FENCE FOOTINGS BY LANDSCAPE.

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12 2020.01.17 ISSUED FOR TENDER LEGEND: WALL MOUNT LIGHT -0 BOLLARD PERMEABLE CONCRETE RUBBER SURFACING UNILOCK SERIES 'A' CIP CONCRETE CIP COLOURED CONCRETE علد PLANTING علد CONTROL JOINT _ _ _ EXPANSION JOINT _____ CIP CURB _____ ********* CIP FLUSH CURB CITY STANDARD BIKE RACK -00 BIKE RACKS HOSE BIB- SEE MECHANICAL +-ION OF LAA THEUNG LER OVIV

Landscape Architects J M/

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MOUNT DENNIS CHILDCARE CENTRE 1234 WESTON ROAD, TORONTO, ON M6M 4P8

LANDSCAPE PLAN

scale: date: drawn: checked by: project number: drawing number:

1:100 10/23/17 KC HC 17022

L-01 Revision:

Key to Detail Location

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10	2019.05.07	ISSUED FOR TENDER			



KC

HC



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MOUNT DENNIS CHILDCARE CENTRE 1234 WESTON ROAD, TORONTO, ON M6M 4P8



scale: date: drawn: checked by: project number: drawing number: 1:100 10/23/17 КС НС 17022 **L-03**



HP LS ()

Common Name	
Flame Maple	

Red Maple, Swamp Maple Thornless Common Honeylocust	75mm 75mm 75mm
	75000
American Hophornbeam	75mm
Kelsey Dogwood	2 gal
Gro-Low Fragrant Sumac	60cm
Pensilvania Sedge Grass	2 gal
Japanese Spurge	4"
Pensilvania Sedge Grass	2 gal
Silver arrow grass	2 gal
Silver arrow grass	2 gal

Size

75mm MS

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ISSUED FOR TENDER

LEGEND: WALL MOUNT LIGHT -0 BOLLARD PERMEABLE CONCRETE RUBBER SURFACING UNILOCK SERIES 'A' CIP CONCRETE CIP COLOURED CONCRETE علد علد ملد PLANTING ملہ ملہ CONTROL JOINT _ _ _ EXPANSION JOINT _____ CIP CURB CIP FLUSH CURB CITY STANDARD BIKE RACK Π **BIKE RACKS** HOSE BIB- SEE MECHANICAL +-

MOUNT DENNIS CHILDCARE CENTRE 1234 WESTON ROAD, TORONTO, ON M6M 4P8

M/

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PLANTING PLAN

scale:	
date:	
drawn:	
checked by:	
project number:	
drawing number:	

1:100 10/23/17 KC HC 17022

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LEGEND:

RUBBER SURFACING

MOUNT DENNIS CHILDCARE CENTRE 1234 WESTON ROAD, TORONTO, ON M6M 4P8

scale: date: drawn: checked by: project number: drawing number: As indicated 10/23/17 KC HC 17022 L-05

Revision:

'L' ANCHOR BOLTED TO STEEL 1/4" PLATE AND TABLE POSTS - PAVERS- SEE DETAIL 4 LD-05

scale: date: drawn: checked by: project number: drawing number:

M

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As indicated 10/23/17 KC HC 17022

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Landscape Architects

MOUNT DENNIS CHILDCARE CENTRE

1234 WESTON ROAD, TORONTO, ON M6M 4P8

LANDSCAPE

DETAILS

		WOVE APPR OF TR
		150mr APPPI LENG
		BX 30 CONT
		PLAN ⁻ LIFTS FILTEI
H	<u> </u>	19mm
		100mr
		SCAR ENSU PROM

		ა	2010.00.29
		4	2018.08.10
		5	2018.09.11
ORMANCE BEDDING.		6	2018.10.03
W, BY TERRAFIX OR TINUOUS FOR LENGTH BY TERRAFIX OR		7	2018.10.11
		8	2019.02.15
ENING		9	2019.04.05
RRAFIX OR APPROVED EQUAL TH OF TRENCH OPENING		10	2019.05.07

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Key to Detail Location

NO

NO.

Detail Number

Drawing Number

NOTES:

- 1. t = THICKNESS OF SIDEWALK. ^{2.} SIDEWALK THICKNESS 180mm.
- 3. JOINTS SHALL BE ACCORDING TO T-310.010-1. 4. REFER TO DRAWING FOR SIDEWALK WIDTH.

All dimensions are in millimetres unless otherwise shown.

COMBINED CONCRETE SIDEWALK AND CURB- MODIFIED CITY OF TORONTO DETAIL T-310.010-4 LD-02 scale: n.t.s.

DRIVEWAY CROSSING LD-02 / scale: n.t.s.

STREET TREE CURB (NOT PLANTER) 5 STREET TI

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MOUNT DENNIS CHILDCARE CENTRE 1234 WESTON ROAD, TORONTO, ON M6M 4P8

scale: date: drawn: checked by: project number: drawing number:

As indicated 10/23/17 KC HC 17022 LD-02

TORONTO Parks, Fo Under TORONTO Urban Fo	restry & Recreation restry & Recreation prestry
F-1A-79	02/10 02/10

FILTER FABRIC GRANULAR 'A' - CLEAR STONE 1.5% ŠLOPE - 100mm PERFORATED PIPE (SEE PLAN FOR WEEPER LAYOUT) - SUBGRADE COMPACTED TO 98% S.P.D. OR SOIL AS PER

PLANTING DETAIL AND SPEC IN

DI ANITINIO DEDO

RUBBER SKIM SURFACING, BUILD-UP AND DRAINAGE

Key to Detail Location

NO.

NO.

- SLOPED CURB FROM FLUSH

SIDEWALK

TO STANDARD HT.

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MOUNT DENNIS CHILDCARE CENTRE 1234 WESTON ROAD, TORONTO, ON M6M 4P8

Landscape Architects

scale: date: drawn: checked by: project number: drawing number:

As indicated 10/23/17 KC HC 17022 LD-03

(5) (LD-04)

scale: n.t.s.

 $\begin{pmatrix} 6 \\ LD-04 \end{pmatrix}$

INTERNAL FENCING FOOTING

scale: n.t.s.

Key to Detail Location

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Landscape Architects

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NOTCH GRADE BEAM INTO PERIMETER CURB

INTERNAL FENCE FLUSH CURB

NOTES:

• PROVIDE FIVE STOOLS PER TABLE • ALL FASTENERS TO BE GALVANIZED OR AS AVAILABLE WITH ADDITIONAL CORROSION RESISTANCE • ALL SLATS AND BRACES TO BE FREE OF CRACKS, CHECKS AND WARPS • PAINT SLATS AND BRACES WITH TWO COATS OF CLEAR SEALER

BC

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Landscape Architects

scale: date: drawn: checked by: project number: drawing number:

As indicated 10/23/17 KC HC 17022 LD-05

Revision:

19mm Ø GRANULAR 'A' BACKFILL COMPACTED TO 98% S.P.D. IN

Flo Bike Rack, Embedded, Stainless Steel Product Drawing

Date: 11/18/2014 www.landscapeforms.com Ph: 800.521.2546

GRADE

2 STREETSCAPE BIKE RACK LD-06 scale: n.t.s.

NTS 05/16

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Landscape Architects J M/

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MOUNT DENNIS CHILDCARE CENTRE 1234 WESTON ROAD, TORONTO, ON M6M 4P8

LANDSCAPE PLAN

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1:100 10/23/17 KC HC 17022

L-01 Revision:

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MOUNT DENNIS CHILDCARE CENTRE 1234 WESTON ROAD, TORONTO, ON M6M 4P8

scale: date: drawn: checked by: project number: drawing number: 1:100 10/23/17 КС НС 17022 **L-03**

HP LS ()

Common Name	
Flame Maple	

Red Maple, Swamp Maple Thornless Common Honeylocust	75mm 75mm 75mm
	75000
American Hophornbeam	75mm
Kelsey Dogwood	2 gal
Gro-Low Fragrant Sumac	60cm
Pensilvania Sedge Grass	2 gal
Japanese Spurge	4"
Pensilvania Sedge Grass	2 gal
Silver arrow grass	2 gal
Silver arrow grass	2 gal

Size

75mm MS

Key to Detail Location

NO.

NO.

Detail Number Drawing Number

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Drawings should not be scaled.

12 2020.01.17

Building permit issuance shall be subject to the building permit drawings not being in contravention with these approved plans and drawings including, but not limited to, the exterior design of the building and exterior building materials.

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9	2019.04.05	REISSUED FOR TENDER CLIENT REVIEW
10	2019.05.07	ISSUED FOR TENDER

ISSUED FOR TENDER

LEGEND: WALL MOUNT LIGHT -0 BOLLARD PERMEABLE CONCRETE RUBBER SURFACING UNILOCK SERIES 'A' CIP CONCRETE CIP COLOURED CONCRETE علد علد ملد PLANTING ملہ ملہ CONTROL JOINT _ _ _ EXPANSION JOINT _____ CIP CURB CIP FLUSH CURB CITY STANDARD BIKE RACK Π **BIKE RACKS** HOSE BIB- SEE MECHANICAL +-

MOUNT DENNIS CHILDCARE CENTRE 1234 WESTON ROAD, TORONTO, ON M6M 4P8

M/

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PLANTING PLAN

scale:	
date:	
drawn:	
checked by:	
project number:	
drawing number:	

1:100 10/23/17 KC HC 17022

Key to Detail Location

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LEGEND:

RUBBER SURFACING

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scale: date: drawn: checked by: project number: drawing number: As indicated 10/23/17 KC HC 17022 L-05

Revision:

'L' ANCHOR BOLTED TO STEEL 1/4" PLATE AND TABLE POSTS - PAVERS- SEE DETAIL 4 LD-05

scale: date: drawn: checked by: project number: drawing number:

M

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MOUNT DENNIS CHILDCARE CENTRE

1234 WESTON ROAD, TORONTO, ON M6M 4P8

LANDSCAPE

DETAILS

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	5	2018.09.11
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W, BY TERRAFIX OR TINUOUS FOR LENGTH	7	2018.10.11
	8	2019.02.15
ENING	9	2019.04.05
RRAFIX OR APPROVED EQUAL TH OF TRENCH OPENING	10	2019.05.07

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Drawings should not be scaled.

Key to Detail Location

NO

NO.

Detail Number

Drawing Number

NOTES:

- 1. t = THICKNESS OF SIDEWALK. ^{2.} SIDEWALK THICKNESS 180mm.
- 3. JOINTS SHALL BE ACCORDING TO T-310.010-1. 4. REFER TO DRAWING FOR SIDEWALK WIDTH.

All dimensions are in millimetres unless otherwise shown.

COMBINED CONCRETE SIDEWALK AND CURB- MODIFIED CITY OF TORONTO DETAIL T-310.010-4 LD-02 scale: n.t.s.

DRIVEWAY CROSSING LD-02 / scale: n.t.s.

STREET TREE CURB (NOT PLANTER) 5 STREET TI

Key to Detail Location

NO. <u>NO.</u>

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TORONTO Parks, Fo Under TORONTO Urban Fo	restry & Recreation restry & Recreation prestry
F-1A-79	02/10 02/10

FILTER FABRIC GRANULAR 'A' - CLEAR STONE 1.5% ŠLOPE - 100mm PERFORATED PIPE (SEE PLAN FOR WEEPER LAYOUT) - SUBGRADE COMPACTED TO 98% S.P.D. OR SOIL AS PER

PLANTING DETAIL AND SPEC IN

DI ANITINIO DEDO

RUBBER SKIM SURFACING, BUILD-UP AND DRAINAGE

Key to Detail Location

NO.

NO.

- SLOPED CURB FROM FLUSH

SIDEWALK

TO STANDARD HT.

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Detail Number Drawing Number

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 $\begin{pmatrix} 6 \\ LD-04 \end{pmatrix}$

scale: n.t.s.

(5) (LD-04) scale: n.t.s.

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NOTCH GRADE BEAM INTO PERIMETER CURB

INTERNAL FENCE FLUSH CURB

NOTES:

• PROVIDE FIVE STOOLS PER TABLE • ALL FASTENERS TO BE GALVANIZED OR AS AVAILABLE WITH ADDITIONAL CORROSION RESISTANCE • ALL SLATS AND BRACES TO BE FREE OF CRACKS, CHECKS AND WARPS • PAINT SLATS AND BRACES WITH TWO COATS OF CLEAR SEALER

BC

Key to Detail Location

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As indicated 10/23/17 KC HC 17022 LD-05

Revision:

19mm Ø GRANULAR 'A' BACKFILL COMPACTED TO 98% S.P.D. IN

Flo Bike Rack, Embedded, Stainless Steel Product Drawing

Date: 11/18/2014 www.landscapeforms.com Ph: 800.521.2546

GRADE

2 STREETSCAPE BIKE RACK LD-06 scale: n.t.s.

NTS 05/16

Key to Detail Location

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NOTES

A. REFERENCE DRAWINGS, CODES, AND STANDARDS I. Architectural Drawings no. A2.01, Basement Floor Plan. Project no. 17026. Dated 2018-04-13. Rev. no. 9, 20-01-17, Issued for Tender. Prepared by Coolearth Architecture Inc. and CS&P Architects.

- Received on January 25, 2019. 2. Structural Drawing no. SI.01, Foundation Plan. Project no. 20171238. Dated 18-10-03. Rev. no. 8, 20-01-17, Reissued for tender. Prepared by Stephenson Engineering. Received on January 22, 2019. 3. Topographic Survey Drawing, Job no. 2017-06069. Plan no. 2017-06069. Dated 2018-01-10.
- Prepared by Land & Property Surveyors. Received on January 17, 2019. 4. City Utility Mapping Drawing, File Name: "1234 Weston Rd". Received on January 17, 2019. 5. Servicing Drawing Project no. 41340. Dated 2018-11-05. Prepared by multiVIEW Locates Inc. Received on March 29th, 2019.
- 6. Geotechnical Report, Project no. 17-2118GH Revised. Report Date, July 9, 2018. Prepared by GeoPro Consulting Limited. Received on January 2, 2019.
- 7. CSA SIG-14 Design of Steel Structures 8. CSA A23.1-14 Concrete Materials and Methods of Concrete Construction
- 9. CSA A23.2-14 Test Methods and Standard Practices for Concrete 10. CSA A23.3-14 Design of Concrete Structures II. PTI DC35.1-14 Recommendations for Prestressed Rock and Soil Anchors
- 12. PTI M55.1-12 Specification for Grouting of Post-Tensioned Structures 13. Segments of the Canadian National Building Code 2015 (CNBC) 14. Segments of the Canadian Highway Bridge Design Code CSA S6-14 (CHBDC)
- 15. Segments of the Ontario Building Code (OBC) 2012 16. Segments of the Canadian Foundation Engineering Manual (CFEM) 4th Edition
- B. DESIGN ASSUMPTIONS
- I. The current design scheme illustrates a temporary excavation shoring system capable of supporting between 5.0 m and 5.5 m of overburden soil. 2. The current design is based upon the assumption that the assumed existing structure foundation
- configurations, elevations and loads indicated on the shoring drawings are correct. Should any or all of these assumptions change, redesign of the shoring may be required. See General Notes.
- 3. Shoring systems are intended to be temporary structures and have a limited design life. Design assumes the permanent lateral structure will be capable of replacing the temporary shoring within one year of commencement of excavation.
- 4. All walers are continuous and connections must transfer section full capacity.
- C. DESIGN PARAMETERS
- I. Active lateral earth pressure coefficient, ka = 0.352. Bulk unit weight of soil, $\gamma = 20$ kN/m3 for fill material and 21.0 kN/m3 for native sand
- 3. General surcharge loading, q = 12 kPa 4. Groundwater table assumed to be below influence of bulk excavation and/or shoring toes. Therefore no
- hydrostatic pressures are considered in the design. Engineered dewatering systems may be required. 5. Inclined bearing capacity for raker pad design = 150 kPa
- 6. Supernormal loads applied to the shoring system, other than those indicated on these drawings, are subject to review by the Shoring Engineer. Supernormal loads may include, but are not limited to: loads imposed by formwork systems, permanent structural elements, utility support systems, and surcharge pressures resulting from tracked and/or vehicles utilizing outrigger pads such as excavators, mobile cranes, and concrete pump trucks.

D. MATERIALS

- I. Structural Steel: a. Structural steel to be new our sound material conforming to CAN/CSA G40.20-13/G40.21-13,
 - grade 350W. b. Alternative grades or sections of equivalent strength/stiffness may be substituted subject to the
 - Shoring Engineer's approval. c. All welding to comply with the latest version of CSA W59 and CSA SIG. I d. All welding to be carried out by a CWB W47.1 certified company with CWB certified welders.
- e. All welds shown or implied on this drawing set are to be 10mm fillet, all around and both sides, unless noted otherwise. 2. Concrete:
- a. Soldier Pile & Lagging: 20 MPa pile toes and 0.4 MPa unshrinkable fill above. b. Caisson Wall: 4 MPa full depth for all caissons (fillers and piles). c. Raker pads: 20 MPa. Provide minimum 4 days curing time prior to excavating berm material after
- setting rakers. d. Concrete exposure class N for all concrete elements. e. The use of down-the-hole mixed toes utilizing Portland cement bags is not permitted.
- 3. Timber lagging: a. Typical 3050mm bays to be lagged with 75mm thick hardwood boards, unless noted otherwise.
- b. Bays up to 3650mm long must be lagged with 100mm thick hardwood boards, unless noted otherwise. c. Pressure treated lagging may be required. See drawing elevations.
- d. Lagging alternatives may be substituted subject to the Shoring Engineer's approval.

E. GENERAL NOTES

- I. General Contractor to verify the configuration and elevation of all existing adjacent structure foundations during the demolition phase of the work. Report same prior to start of shoring installation to Shoring Engineer. Reduce grade to top of shoring piles as part of site preparation work.
- 2. Owner to secure encroachment agreements and municipal permits where shoring components extend
- beyond project property boundaries. 3. General Contractor to provide and maintain an engineered working platform suitable for shoring
- 4. Demolition/Excavation Contractor to excavate in advance to remove any underground obstructions interfering with the shoring system layout. Backfill with suitable engineered fill or lean concrete as appropriate.
- 5. Utilities shown on the shoring drawings are schematic in nature and are based on utility drawings listed under Section 'A' above. G.C. to locate and identify all underground and overhead services within the
- influence of the shoring; protect and/or relocate as necessary. 6. Advise Shoring Engineer of any potential interference with elements of the excavation shoring system that
- may require redesign. Report any discrepancies to the Shoring Engineer. 7. Project Surveyor to lay out pile locations and check all dimensions against Architectural Drawings. Report
- any discrepancies to the Shoring Engineer.
- out by Project Surveyor.
- 9. Verticality tolerance of piles to be within 0.5% of excavation height. 10. Dewater as necessary to at least 1.0m below the base of excavation in advance of all excavation stages. II. Excavator to bulk in lifts per project procedures, never over-excavating beyond design or Shoring
- Contractor's requirements. 12. Excavator to report any wall breaches or signs of structural distress (cracking, bending, buckling)
- immediately. Backfill and berm material at any such location and report to Shoring Engineer prior to carrying on with further excavation in the area. 13. Excavator to exercise caution when digging within 1000mm of struts/rakers.

F. PROCEDURE

- I. Drill holes for piles, utilizing temporary liners, drilling slurry/tremie methods, and/or other techniques as necessary to prevent groundwater infiltration or loss of soil.
- 2. Provide drill holes large enough that piles may be set plumb despite the misalignment of drill holes. 3. Set piles, wedge and fill holes with specified concrete. Withdraw temporary liners if used.
- 4. Ensure causson wall shafts have minimum interlock as specified at grade such that interlock exists at depth, cognizant of verticality tolerance. Advise Shoring Engineer of any deficiencies immediately.
- 5. Excavate in stages to suit shoring work. 6. Excavation Contractor to shave caissons to front face of soldier pile, or as directed by General Contractor.
- 7. Install lagging in maximum 1200mm lifts. Should caving or raveling occur, reduce lift height as appropriate. Fill all voids behind lagging with granular fill rammed in place. Leave no vertical excavation
- open overnight. 8. In wet ground provide spacers to create 10mm gaps between individual lagging boards, place filter
- material behind lagging to allow passage of water without loss of soil fines. 9. Do not excavate more than 500mm below brace elevations until bracing is installed and/or stressed.
- 10. Lateral brace removals, if required, are to be made only after structural slabs and walls immediately below brace elevation are constructed to design strength. Removal circumstances vary on a case-by-case basis and shall be reviewed by the Shoring Engineer and Structural Engineer. II. Raker to be fully removed at exterior insulation plane at walls and basement slab. Allow space for full
- foundation wall.

G. FIELD REVIEW AND MONITORING

- influence of excavation shoring system. 2. Monitoring Engineer to record vibration levels as per applicable By-Laws at structures within the zone of
- influence of excavation shoring systems during entirety of shoring and excavation work. 3. General Contractor to notify Monitoring Engineer promptly of the start of bulk excavation to facilitate initialization of monitoring program.
- 4. Monitoring Engineer to record movement of shoring system through construction at least once per week during active excavation in accordance with City of Toronto requirements. Report results promptly to Shoring Engineer.
- 5. All monitoring reports to be distributed promptly to project team as directed by Owner and to include at a minimum the Shoring Engineer and Shoring Contractor. 6. General Contractor to assist Monitoring Engineer by providing safe access to all instrumentation locations and ensuring visibility to monitoring targets is maintained throughout the seasons and during inclement

H. WINTER PROTECTION BY GENERAL CONTRACTOR

- I. Protect shoring and/or slope faces from the effects of frost.
- 2. Provide protection at existing buildings to prevent effects of frost.
- become necessary. R3 blankets are rated for sustained temperatures of up to -15 degrees Celsius.
- may be necessary to combat manifested frost effects.

I. HEALTH AND SAFETY

weather.

I. All work to be carried out in accordance with the latest version of the Occupational Health and Safety Act. 2. Fall prevention measures (quard rails or equivalent, designed in accordance with OHSA requirements) shall be placed around entire shoring perimeter to allow access to top of shoring for inspection and/or monitoring. In certain cases, General Contractor may be required to provide safe access to top of shoring walls by installing temporary pedestrian decking.

construction equipment, certified in accordance with O. Reg. 213/91 as amended, s. 156.1-156.9.

8. Shoring Contractor to set piles within a 25mm construction tolerance of theoretical pile locations as laid

removal of Raker. The cut of the Raker should be flushed to concrete raker pad and exterior insulation of

I. Monitoring Engineer to carry out pre- \$ post-construction condition survey of all structures within the

3. Minimum R3 rated frost blankets must be available on site by November 1⁵¹, should their placement 4. R8 rated frost blankets and/or propane heaters may be required for extreme cold temperatures. Heating

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RELOCATED, PRIOR TO PROCEEDING WITH ANY DRILLING OR EXCAVATION WORK. DO NOT EXCAVATE OR DRILL BEFORE ALL SERVICES HAVE BEEN LOCATED CONTRACTOR MUST VERIFY ALL DIMENSIONS AND BE RESPONSIBLE FOR SAME REPORTING ANY DISCREPANCIES TO THE ARCHITECT BEFORE COMMENCING THE WORK. PRINTS ARE NOT TO BE SCALED. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE DRAWINGS WITHOUT ENGINEER'S SIGNATURE SHALL BE CONSTRUED AS INCOMPLETE AND ARE FOR INFORMATION ONLY

COOLEARTH ARCHITECTURE INC.

386 PACIFIC AVENUE, TORONTO, ONTARIO, M6P 2R1 TEL: 416-868-9774

Job Title

Client

1234 WESTON ROAD TORONTO, ONTARIO

EXCAVATION SHORING PLAN AND NOTES North

11 Indell Lane Brampton, ON L6T 3Y3 Tel: (905) 796-2650 Fax: (905) 796–2250

Designed By: 1:100 M. T. Drawn By : Reviewed Bv : W. H. / R. P. B. G. Sheet No: 1-19-0027-80 SH1

(TP) TIEBACK PERFORMANCE TEST (200% DL) APPROXIMATE BOREHOLE LOCATION APPROXIMATE TEST PIT LOCATION INCLINOMETER PROPOSED SHORING STRUCTURALLY LOADED SHORING EXISTING STRUCTURE ---- PROPOSED STRUCTURE/UTILITY SERVICE LOCATIONS INDICATED ON SHORING DRAWINGS ARE PROVIDED FOR COORDINATION PURPOSES ONLY. OTHER SERVICES NOT INDICATED ON THIS DRAWING MAY EXIST. THE OWNER / GENERAL CONTRACTOR / PROJECT MANAGER SHALL ENSURE THAT ALL THE UNDERGROUND AND OVERHEAD SERVICES BE IDENTIFIED, PROTECTED AND / OR RELOCATED, PRIOR TO PROCEEDING WITH ANY DRILLING OR EXCAVATION WORK. DO NOT EXCAVATE OR DRILL BEFORE ALL SERVICES HAVE BEEN LOCATED. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND BE RESPONSIBLE FOR SAME REPORTING ANY DISCREPANCIES TO THE ARCHITECT BEFORE COMMENCING THE WORK. PRINTS ARE NOT TO BE SCALED. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED. DRAWINGS WITHOUT ENGINEER'S SIGNATURE SHALL BE CONSTRUED AS INCOMPLETE AND ARE FOR INFORMATION ONLY. Client COOLEARTH ARCHITECTURE INC. 386 PACIFIC AVENUE, TORONTO, ONTARIO, M6P 2R1 TEL: 416-868-9774 Job Title 1234 WESTON ROAD TORONTO, ONTARIO Sheet Title **EXCAVATION SHORING ELEVATIONS AND SECTIONS** North PROFESSION M. H. TAVAKOL 100517887 $\overline{\bigcirc}$ (17 JAN. 2020) NCE OF ON Terraprobe Inc. Engineering Solutions 11 Indell Lane Brampton, ON L6T 3Y3 Tel: (905) 796—2650 Fax: (905) 796—2250 Scale : Designed By: AS INDICATED Μ.Τ. Drawn By : Reviewed By : W. H. / R. P. B. G. Job No : Sheet No: 1-19-0027-80 SH2

17 JANUARY 2020 ISSUED FOR TENDER

04 FEBRUARY 2019 ISSUED FOR PERMIT

NO DATE

LEGEND

05 APRIL 2019 ISSUED FOR TENDER CLIENT REVIEW

REMARKS

REVISIONS

STRUT/CORNER BRACE SCHEDULE						
PILE NO. LEVEL BRACE (m) BRACE SIZE BRACE (±mm) BRACE						
9 & 11	А	123.00	W200x52	3050		
21 & 23	А	123.00	W200×52	3200		

PILE NO.LEVEL OF RAKERS PER PILEWALER SIZE (SEE ELEVATION DRAWINGS)WALER ELEVATION (m)RAKER SIZERAKER ELEVATION (m)T.O.C. ELEV. RAKER PAD (m)ANGLE RAK FROM (m)RAK LEN (m)31stW610x113121.70W310x86SEE DETAIL118.0545°52°	RAKER LOAD ENGTH (kN) (mm)	RAKER PAD DIMENSION (LxWxD mm)	BEARING PLATE (mm)	QTY.
3 1st W610x113 121.70 W310x86 SEE DETAIL 118.05 45° 52	5270 1620			
	5270 1020	3300x3300x1650	400x350x20	1
5 1st W610x113 121.70 W310x86 SEE DETAIL 118.05 55° 71°	7180 1620	3300x3300x1650	400x350x20	1
7 1st W610x113 121.70 W310x86 SEE DETAIL 118.05 55° 71°	7180 1620	3300x3300x1650	400x350x20	1
13 1st W610x92 123.20 W310x86 SEE DETAIL 118.05 45° 74	7430 1120	2800x2800x1400	400x350x20	1
15 1st W610x92 123.20 W310x86 SEE DETAIL 118.05 45° 74	7430 1120	2800x2800x1400	400x350x20	1
18 1st W610x92 123.20 W310x86 SEE DETAIL 118.05 45° 74	7430 1120	2800×2800×1400	400x350x20	1
26 1st W610x92 123.20 W310x86 SEE DETAIL 118.05 45° 74	7430 1120	2800×2800×1400	400×350×20	1
28 & 29 1st W310x107 123.20 W250x80 SEE DETAIL 118.05 45° 73	7370 1050	2700x5400x1350	350x350x20	2

(TP) TIEBACK PERFORMANCE TEST (200% DL) APPROXIMATE BOREHOLE LOCATION APPROXIMATE TEST PIT LOCATION INCLINOMETER STRUCTURALLY LOADED SHORING EXISTING STRUCTURE ---- PROPOSED STRUCTURE/UTILITY SERVICE LOCATIONS INDICATED ON SHORING DRAWINGS ARE PROVIDED FOR COORDINATION PURPOSES ONLY. OTHER SERVICES NOT INDICATED ON THIS DRAWING MAY EXIST. THE OWNER / GENERAL CONTRACTOR / PROJECT MANAGER SHALL ENSURE THAT ALL THE UNDERGROUND AND OVERHEAD SERVICES BE IDENTIFIED, PROTECTED AND / OR RELOCATED, PRIOR TO PROCEEDING WITH ANY DRILLING OR EXCAVATION WORK. DO NOT EXCAVATE OR DRILL BEFORE ALL SERVICES HAVE BEEN LOCATED. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND BE RESPONSIBLE FOR SAME REPORTING ANY DISCREPANCIES TO THE ARCHITECT BEFORE COMMENCING THE WORK. PRINTS ARE NOT TO BE SCALED. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED. DRAWINGS WITHOUT ENGINEER'S SIGNATURE SHALL BE CONSTRUED AS INCOMPLETE AND ARE FOR INFORMATION ONLY. Client COOLEARTH ARCHITECTURE INC. 386 PACIFIC AVENUE, TORONTO, ONTARIO, M6P 2R1 TEL: 416-868-9774 Job Title 1234 WESTON ROAD TORONTO, ONTARIO Sheet Title **EXCAVATION SHORING** DETAILS AND SCHEDULES North OROFESSIONA M. H. TAVAKOL 100517887 Ð \$ 17 JAN. 2020 NCE OF ON Terraprobe Inc. Engineering Solutions

17 JANUARY 2020 ISSUED FOR TENDER

04 FEBRUARY 2019 ISSUED FOR PERMIT

NO DATE

LEGEND

05 APRIL 2019 ISSUED FOR TENDER CLIENT REVIEW

REMARKS

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Key to Detail Location

NO.

NO

Detail Number Drawing Number

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0	18-06-29	Issued for 50% Contract Documents
1	18-07-20	Issued for Geothermal Test Well
2	18-08-03	Issued for 70% Contract Documents
3	18-09-11	Issued for Progress
4	18-09-26	Issued for 95% Contract Documents
5	18-10-03	Issued for Permit
6	19-04-05	Issued for Tender Client Review
7	19-05-07	Issued for Tender

Note: This copy includes markups highlighting areas where Addendum #M0 revises the requirements of these documents.

Markup revision 1 16/01/2020 by Reinbold Engineering Group

addendum markups are boxed in in grey, with lower case font. Relocations and additions are marked in red. Deletions are hatched in red. Extent of duct size changes are marked in yellow.

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landscape architect

civil engineer

COOLEARTH ARCHITECTURE INC. 386 Pacific Ave. Toronto, ON, M6P 2R1 Phone: 416-868-9774

CS&P ARCHITECTS INC. 2345 Yonge St., Suite 200 Toronto, ON. M4P 2E5 Phone: 416-482-5002

STEPHENSON ENGINEERING 2550 Victoria Park Ave., Suite 602 Toronto, ON M2J 5A9 Phone: 416-635-9970

R MANCINI AND ASSOCIATES 30 Martha St Suite 203 Bolton, ON L7E 5V1 Phone: 905-951-6292

PMA LANDSCAPE ARCHITECTS LTD. 359 Keele Street Toronto, ON, M6P 2K6 Phone: 416-239-9818

MASONGSONG ASSOCIATES ENGINEERING LTD. 7800 Kennedy Road, S. 201 Markham, ON, L3R 2C7 Phone: 905-944-0162

R.Mancini and Associates Ltd. Geothermal / Energy Consultants 30 Martha St. Suite 203, Bolton, Ontario L7E 5V1 Tel: (416) 236-2626, (905) 951-6292 Fax: (905) 951-0305 Website: www.geothermax.com E-mail rmancini@geothermax.com

MOUNT DENNIS CHILDCARE CENTRE 1234 WESTON ROAD, TORONTO, ON M6M 4P8

scale: date: drawn: checked by: CS&P project number: RMA project number: drawing number: 1:100 03/02/18 B.C. R.M. 17026 RMA-17-05 **M-1**

PLUMBING & DRAINAGE GENERAL NOTES:

- 1. STANDARD DRAWINGS OF THE CITY OF TORONTO AND ONTARIO PROVINCIAL STANDARDS CONSTITUTE PART OF THE PLANS OF THE CONTRACT.
- 2. ALL PLUMBING & DRAINAGE INFORMATION SHALL BE CHECKED AND VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION AND HE SHALL REPORT ANY DISCREPANCIES IMMEDIATELY TO THE ENGINEER.
- 3. ALL WORK SHALL BE DONE IN ACCORDANCE WITH ALL AUTHORITIES HAVING JURISDICTION.
- 4. REFER TO ARCHITECTURAL DRAWINGS FOR FINAL LAYOUT.
- 5. DRAIN & PLUMBING FIXTURE SYMBOLS IN BRACKETS REPRESENT DRAINS & PLUMBING FIXTURES AT FLOOR ABOVE.
- 6. PLUMBING AND DRAINAGE CONTRACTOR TO COORDINATE HIS WORK WITH THE WORK OF OTHER TRADES.7. INSTALL ALL PIPING CLOSE TO WALLS AND CEILINGS TO CONSERVE HEADROOM & SPACE. RUN WITHIN JOIST SPACE WHERE POSSIBLE.
- COORDINATE PIPING WITH ALL MECHANICAL EQUIPMENT.
- 8. ALL TRAP SEAL PRIMERS TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURE'S INSTRUCTIONS.
- 9. PROVIDE INSPECTOR'S TEST CONNECTIONS AS PER AUTHORITIES REQUIREMENTS.
- 10. NOT ALL VENT PIPING & SIZING SHOWN. PROVIDE COMPLETE VENTING SYSTEM AS PER ONTARIO BUILDING CODE PART 7 (PLUMBING).
- ALL VENTS SHALL EXTEND AND CONNECT TO ONE OF TWO 1000 VENT HEADER LOCATIONS SHOWN ON SECOND FLOOR PLAN.
 PIPES UNDER SLAB RUN UNDER THE SLAB INSULATION REFER TO ARCHITECTURAL AND STRUCTURAL FOR OVERALL THICKNESS OF ASSEMBLY.
- 13. PLUMBING AND DRAINAGE SERVICES NOT PERMITTED TO PENETRATE BEAMS OR JOISTS.
- 14. PLUMBING AND DRAINAGE SERVICES NOT PERMITTED TO BE SUPPORTED FROM WOOD DECK.
- 15. DRAWINGS INDICATE GENERAL LOCATION AND ROUTING OF PIPES. COORDINATE EXACT ROUTING WITH H.V.A.C., ELECTRICAL, FIRE PROTECTION, STRUCTURAL AND ARCHITECTURAL WORK. REFER TO SPECIFICATION SECTION 21 05 01, PART 1.7.
- 16. REFER TO VOLUME 1 ARCHITECTURAL SPECIFICATION SECTION 01 31 23 FOR INTERFERENCE AND COORDINATION DRAWINGS AND DOCUMENT REQUIREMENTS.

Key to Detail Location

NO.

NO.

Detail Number Drawing Number

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Drawings should not be scaled.

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4	18-10-03	Issued for Permit
5	19-04-05	Issued for Tender Client Review
6	19-05-07	Issued for Tender

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mechanical &

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landscape architect

civil engineer

COOLEARTH ARCHITECTURE INC. 386 Pacific Ave. Toronto, ON, M6P 2R1 Phone: 416-868-9774

CS&P ARCHITECTS INC. 2345 Yonge St., Suite 200 Toronto, ON. M4P 2E5 Phone: 416-482-5002

STEPHENSON ENGINEERING 2550 Victoria Park Ave., Suite 602 Toronto, ON M2J 5A9 Phone: 416-635-9970

R MANCINI AND ASSOCIATES 30 Martha St Suite 203 Bolton, ON L7E 5V1 Phone: 905-951-6292

PMA LANDSCAPE ARCHITECTS LTD. 359 Keele Street Toronto, ON, M6P 2K6 Phone: 416-239-9818

MASONGSONG ASSOCIATES ENGINEERING LTD. 7800 Kennedy Road, S. 201 Markham, ON, L3R 2C7 Phone: 905-944-0162

30 Martha St.. Suite 203, Bolton, Ontario L7E 5V1 Tel: (416) 236-2626, (905) 951-6292 Fax: (905) 951-0305 Website: www.geothermax.com E-mail rmancini@geothermax.com

MOUNT DENNIS CHILDCARE CENTRE 1234 WESTON ROAD, TORONTO, ON M6M 4P8

UNDERGROUND PIPING PLUMBING & DRAINAGE BASEMENT FLOOR PLAN

scale: date: drawn: checked by: CS&P project number: RMA project number: drawing number: 1:75 03/02/18 B.C. R.M. 17026 RMA-17-05

M-2 Revision:

A Ax Ax B

G

Key to Detail Location

NO.

NO.

Detail Number Drawing Number

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6	19-05-07	Issued for Tender

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MOUNT DENNIS CHILDCARE CENTRE 1234 WESTON ROAD, TORONTO, ON M6M 4P8

PLUMBING & DRAINAGE **BASEMENT FLOOR PLAN**

scale: date: drawn: checked by: CS&P project number: RMA project number: drawing number

1:75 03/02/18 B.C. R.M. 17026 RMA-17-05 M-3

1) EXPOSED CEILING IN THIS AREA TO BE FREE OF PLUMBING & DRAINAGE SERVICES. REFER TO ARCHITECTURAL GRND. FL. RCP DRAWING.

Key to Detail Location

NO.

NO. /

Detail Number Drawing Number

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5	19-04-05	Issued for Tender Client Review
6	19-05-07	Issued for Tender

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 (\mathfrak{S}) R.Mancini and Associates Ltd. Geothermal / Energy Consultants 30 Martha St., Suite 203, Bolton, Ontario L7E 5V1 Tel: (416) 236-2626, (905) 951-6292 Fax: (905) 951-0305 Website: www.geothermax.com E-mail rmancini@geothermax.com

MOUNT DENNIS CHILDCARE CENTRE 1234 WESTON ROAD, TORONTO, ON M6M 4P8

PLUMBING & DRAINAGE **GROUND FLOOR PLAN**

scale: date: drawn: checked by: CS&P project number: RMA project number: drawing number:

1:75 03/02/18 B.C. R.M. 17026 RMA-17-05

M-4 Revision:

structural engineer

mechanical & electrical engineer

landscape architect

civil engineer

PLUMBING & DRAINAGE PLAN NOTES:

(1) EXPOSED CEILING IN THIS AREA TO BE FREE OF PLUMBING & DRAINAGE SERVICES. REFER TO ARCHITECTURAL 2ND. FL. RCP DRAWING.

- 2 1250 VENT THRU ROOF. TERMINATE AT 600 mm ABOVE ROOF. ALL VENTS SHALL EXTEND THRU BUILDING TO TERMINATE IN OPEN AIR, ONLY AT THESE TWO LOCATIONS. REFER TO ARCHITECTURAL DRAWINGS FOR TYPICAL VENT STACK DETAIL.
- 3 PROVIDE 500 DRAIN STANDPIPE AND H. & C.W. HOSE BIBBS WITH 200 HOSE CONNECTIONS FOR CLOTHES WASHER. ROUTE DRAIN HOSE FROM DRYER TO CLOTHES WASHER DRAIN STANDPIPE.

(4) ROUTE DRAIN HOSE FROM DRYER TO CLOTHES WASHER DRAIN STANDPIPE.

Key to Detail Location

NO.

<u>NO.</u>

Detail Number Drawing Number

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Drawings should not be scaled.

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3	18-09-26	Issued for 95% Contract Documents
4	18-10-03	Issued for Permit
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6	19-05-07	Issued for Tender

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landscape architect

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MOUNT DENNIS CHILDCARE CENTRE 1234 WESTON ROAD, TORONTO, ON M6M 4P8

PLUMBING & DRAINAGE SECOND FLOOR PLAN

scale: date: drawn: checked by: CS&P project number: RMA project number: drawing number: 1:75 03/02/18 B.C. R.M. 17026 RMA-17-05

M-5 Revision:

A Ax B Bx C

civil engineer

INTERFERENCE AND COORDINATION DRAWINGS AND DOCUMENT REQUIREMENTS.

Key to Detail Location

NO.

NO.

Detail Number Drawing Number

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electrical engineer

landscape architect

civil engineer

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CS&P ARCHITECTS INC. 2345 Yonge St., Suite 200 Toronto, ON. M4P 2E5 Phone: 416-482-5002

STEPHENSON ENGINEERING 2550 Victoria Park Ave., Suite 602 Toronto, ON M2J 5A9 Phone: 416-635-9970

R MANCINI AND ASSOCIATES 30 Martha St Suite 203 Bolton, ON L7E 5V1 Phone: 905-951-6292

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MOUNT DENNIS CHILDCARE CENTRE 1234 WESTON ROAD, TORONTO, ON M6M 4P8

H.V.A.C. **BASEMENT FLOOR PLAN**

scale: date: drawn: checked by: CS&P project number: RMA project number: drawing number:

1:75 03/02/18 B.C. R.M. 17026 RMA-17-05

M-6

Key to Detail Location

NO.

NO.

Detail Number Drawing Number

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Revision/Issued No Date 0 18-06-29 Issued for 50% Contract Documents Issued for 70% Contract Documents 1 18-08-03 2 18-09-11 Issued for Progress Issued for 95% Contract Documents 3 18-09-26 4 18-10-03 Issued for Permit Issued for Tender Client Review 5 19-04-05 6 19-05-07 Issued for Tender

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MOUNT DENNIS CHILDCARE CENTRE 1234 WESTON ROAD, TORONTO, ON M6M 4P8

H.V.A.C. **GROUND FLOOR PLAN**

scale: date: drawn: checked by: CS&P project number: RMA project number: drawing number:

1:75 03/02/18 B.C. R.M. 17026 RMA-17-05

M-7 Revision:

H.V.A.C. PLAN NOTES:

1 EXPOSED CEILING IN THIS AREA TO BE FREE OF H.V.A.C. SERVICES. REFER TO ARCHITECTURAL 2ND. FL. RCP DRAWING.

2 250x150 ACOUSTIC LINED TRANSFER AIR DUCT. TERMINATE BOTH ENDS WITH 250x200 TYPE 'F' GRILLE.

3 RANGE HOOD SUPPLIED BY GENERAL CONTRACTOR INSTALLED BY MECHANICAL CONTRACTOR.

4 EXTEND 500 PV/THERMAL LINES UP TO ROOF. PROVIDE CAPPED VALVE CONNECTIONS ON ROOF FOR CONNECTION BY PV/THERMAL CONTRACTOR.

5 EXTEND 320 CONDENSATE AND DROP TO TERMINATE OVER JANITORS SINK.

Key to Detail Location

NO.

NO. /

Detail Number Drawing Number

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civil engineer

COOLEARTH ARCHITECTURE INC. 386 Pacific Ave. Toronto, ON, M6P 2R1 Phone: 416-868-9774

CS&P ARCHITECTS INC. 2345 Yonge St., Suite 200 Toronto, ON. M4P 2E5 Phone: 416-482-5002

STEPHENSON ENGINEERING 2550 Victoria Park Ave., Suite 602 Toronto, ON M2J 5A9 Phone: 416-635-9970

R MANCINI AND ASSOCIATES 30 Martha St Suite 203 Bolton, ON L7E 5V1 Phone: 905-951-6292

PMA LANDSCAPE ARCHITECTS LTD. 359 Keele Street Toronto, ON, M6P 2K6 Phone: 416-239-9818

MASONGSONG ASSOCIATES ENGINEERING LTD. 7800 Kennedy Road, S. 201 Markham, ON, L3R 2C7 Phone: 905-944-0162

30 Martha St., Suite 203, Bolton, Ontario L7E 5V1 Tel: (416) 236-2626, (905) 951-6292 Fax: (905) 951-0305 Website: www.geothermax.com E-mail rmancini@geothermax.com

MOUNT DENNIS CHILDCARE CENTRE 1234 WESTON ROAD, TORONTO, ON M6M 4P8

H.V.A.C. SECOND FLOOR PLAN

scale: date: drawn: checked by: CS&P project number: RMA project number: drawing number: 1:75 03/02/18 B.C. R.M. 17026 RMA-17-05

INK	LER LEGEND
	SPRINKLER LINE
	FIRE LINE
	PIPE TURNING DOWN
	PIPE TURNING UP
	CAPPED PIPE END
	SUPERVISED VALVE
	ALARM SPRINKLER VALVE
	CHECK VALVE
	UP-RIGHT SPRINKLER
	CONCEALED PENDANT SPRINKLER
	SIDEWALL SPRINKLER
	FIRE EXTINGUISHER (SURFACE MOUNTED)
	FIRE EXTINGUISHER IN RECESSED CABINET

Key to Detail Location

/ NO. `

NO. /

Detail Number Drawing Number

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2	18-09-11	Issued for Progress
3	18-09-26	Issued for 95% Contract Documents
4	18-10-03	Issued for Permit
5	19-04-05	Issued for Tender Client Review
6	19-05-07	Issued for Tender

consultants architects

structural engineer

mechanical &

electrical engineer

landscape architect

civil engineer

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CS&P ARCHITECTS INC. 2345 Yonge St., Suite 200 Toronto, ON. M4P 2E5 Phone: 416-482-5002

STEPHENSON ENGINEERING 2550 Victoria Park Ave., Suite 602 Toronto, ON M2J 5A9 Phone: 416-635-9970

R MANCINI AND ASSOCIATES 30 Martha St Suite 203 Bolton, ON L7E 5V1 Phone: 905-951-6292

PMA LANDSCAPE ARCHITECTS LTD. 359 Keele Street Toronto, ON, M6P 2K6 Phone: 416-239-9818

MASONGSONG ASSOCIATES ENGINEERING LTD. 7800 Kennedy Road, S. 201 Markham, ON, L3R 2C7 Phone: 905-944-0162

R.Mancini and Associates Ltd. Geothermal / Energy Consultants 30 Martha St., Suite 203, Bolton, Ontario L7E 5V1 Tel: (416) 236-2626, (905) 951-6292 Fax: (905) 951-0305 Website: www.geothermax.com E-mail rmancini@geothermax.com

MOUNT DENNIS CHILDCARE CENTRE 1234 WESTON ROAD, TORONTO, ON M6M 4P8

FIRE PROTECTION **BASEMENT FLOOR PLAN**

scale: date: drawn: checked by: CS&P project number: RMA project number: drawing number:

1:75 03/02/18 B.C. R.M. 17026 RMA-17-05

M-9 Revision:

Key to Detail Location

NO.

<u>NO.</u>

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NoDateRevision/Issued018-06-29Issued for 50% Contract Documents118-08-03Issued for 70% Contract Documents218-09-11Issued for Progress318-09-26Issued for 95% Contract Documents418-10-03Issued for Permit

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6	19-05-07	Issued for Tender

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architects

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STEPHENSON ENGINEERING

R MANCINI AND ASSOCIATES

PMA LANDSCAPE ARCHITECTS LTD.

2550 Victoria Park Ave., Suite 602

2345 Yonge St., Suite 200 Toronto, ON. M4P 2E5

Phone: 416-482-5002

Toronto, ON M2J 5A9

30 Martha St Suite 203

Bolton, ON L7E 5V1

359 Keele Street

Toronto, ON, M6P 2K6

Phone: 416-239-9818

Phone: 905-951-6292

Phone: 416-635-9970

386 Pacific Ave

COOLEARTH ARCHITECTURE INC.

structural engineer

mechanical & electrical engineer

landscape architect

civil engineer

MASONGSONG ASSOCIATES ENGINEERING LTD. 7800 Kennedy Road, S. 201 Markham, ON, L3R 2C7 Phone: 905-944-0162

30 Martha St.. Suite 203, Bolton, Ontario L7E 5V1 Tel: (416) 236-2626, (905) 951-6292 Fax: (905) 951-0305 Website: www.geothermax.com E-mail rmancini@geothermax.com

MOUNT DENNIS CHILDCARE CENTRE 1234 WESTON ROAD, TORONTO, ON M6M 4P8

FIRE PROTECTION GROUND FLOOR PLAN

scale: date: drawn: checked by: CS&P project number: RMA project number: drawing number: 1:75 03/02/18 B.C. R.M. 17026 RMA-17-05

M-10 Revision:

Key to Detail Location

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architects

Toronto, ON, M6P 2R1 Phone: 416-868-9774 CS&P ARCHITECTS INC. 2345 Yonge St., Suite 200

STEPHENSON ENGINEERING

R MANCINI AND ASSOCIATES

PMA LANDSCAPE ARCHITECTS LTD.

2550 Victoria Park Ave., Suite 602

Toronto, ON. M4P 2E5

Phone: 416-482-5002

Toronto, ON M2J 5A9 Phone: 416-635-9970

30 Martha St Suite 203

Bolton, ON L7E 5V1

359 Keele Street Toronto, ON, M6P 2K6

Phone: 416-239-9818

Phone: 905-951-6292

386 Pacific Ave.

COOLEARTH ARCHITECTURE INC.

structural engineer

mechanical &

electrical engineer

landscape architect

civil engineer

MASONGSONG ASSOCIATES ENGINEERING LTD. 7800 Kennedy Road, S. 201 Markham, ON, L3R 2C7 Phone: 905-944-0162

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MOUNT DENNIS CHILDCARE CENTRE 1234 WESTON ROAD, TORONTO, ON M6M 4P8

FIRE PROTECTION SECOND FLOOR PLAN

scale: date: drawn: checked by: CS&P project number: RMA project number: drawing number:

1:75 03/02/18 B.C. R.M. 17026 RMA-17-05

M-11 Revision:

Key to Detail Location

(NO.)

<u>NO.</u>

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consultants

COOLEARTH ARCHITECTURE INC. 386 Pacific Ave. Toronto, ON, M6P 2R1 Phone: 416-868-9774

CS&P ARCHITECTS INC. 2345 Yonge St., Suite 200 Toronto, ON. M4P 2E5 Phone: 416-482-5002

STEPHENSON ENGINEERING 2550 Victoria Park Ave., Suite 602 Toronto, ON M2J 5A9 Phone: 416-635-9970

R MANCINI AND ASSOCIATES 30 Martha St Suite 203 Bolton, ON L7E 5V1 Phone: 905-951-6292

PMA LANDSCAPE ARCHITECTS LTD. 359 Keele Street Toronto, ON, M6P 2K6 Phone: 416-239-9818

MASONGSONG ASSOCIATES ENGINEERING LTD. 7800 Kennedy Road, S. 201 Markham, ON, L3R 2C7 Phone: 905-944-0162

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MOUNT DENNIS CHILDCARE CENTRE 1234 WESTON ROAD, TORONTO, ON M6M 4P8

FIRE PROTECTION ROOF PLAN

scale: date: drawn: checked by: CS&P project number: RMA project number: drawing number:

1:75 03/02/18 B.C. R.M. 17026 RMA-17-05

M-12 Revision:

architects

structural engineer

mechanical & electrical engineer

landscape architect

civil engineer

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Detail Number Drawing Number

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structural engineer

mechanical & electrical engineer

landscape architect

civil engineer

COOLEARTH ARCHITECTURE INC. 386 Pacific Ave Toronto, ON, M6P 2R1 Phone: 416-868-9774

CS&P ARCHITECTS INC. 2345 Yonge St., Suite 200 Toronto, ON. M4P 2E5 Phone: 416-482-5002

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PMA LANDSCAPE ARCHITECTS LTD. 359 Keele Street Toronto, ON, M6P 2K6 Phone: 416-239-9818

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MOUNT DENNIS CHILDCARE CENTRE

1234 WESTON ROAD, TORONTO, ON M6M 4P8

scale:
date:
drawn:
checked by:
CS&P project number:
RMA project number:
drawing number:

1:50 03/02/18 B.C. R.M. 17026 RMA-17-05

M-13 Revision:

Key to Detail Location

NO.

NO.

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consultants architects

CS&P ARCHITECTS INC. 2345 Yonge St., Suite 200 Toronto, ON. M4P 2E5

386 Pacific Ave.

Toronto, ON, M6P 2R1

Phone: 416-868-9774

Phone: 416-482-5002

Toronto, ON M2J 5A9

Phone: 416-635-9970

30 Martha St Suite 203

Bolton, ON L7E 5V1

Phone: 905-951-6292

359 Keele Street Toronto, ON, M6P 2K6 Phone: 416-239-9818

STEPHENSON ENGINEERING

R MANCINI AND ASSOCIATES

PMA LANDSCAPE ARCHITECTS LTD.

2550 Victoria Park Ave., Suite 602

COOLEARTH ARCHITECTURE INC.

structural engineer

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MASONGSONG ASSOCIATES ENGINEERING LTD. 7800 Kennedy Road, S. 201 Markham, ON, L3R 2C7 Phone: 905-944-0162

R.Mancini and Associates Ltd. Geothermal / Energy Consultants 30 Martha St., Suite 203, Bolton, Ontario L7E 5V1

30 Marma St., Suite 203, Bolton, Ontario L/E 5V1 Tel: (416) 236-2626, (905) 951-6292 Fax: (905) 951-0305 Website: www.geothermax.com E-mail rmancini@geothermax.com

MOUNT DENNIS CHILDCARE CENTRE 1234 WESTON ROAD, TORONTO, ON M6M 4P8

MECHANICAL ROOM MAIN PIPING SCHEMATIC AND SECTIONS

scale: date: drawn: checked by: CS&P project number: RMA project number: drawing number: 1:50 03/02/18 B.C. R.M. 17026 RMA-17-05

M-14 Revision:

WINDOW WELL SUMP & SIMPLEX PUMP

PREPACKAGED SIMPLEX BASIN SYSTEM, MANUFACTURED BY ZOELLER (OR APPROVED ALTERNATE), MODEL No. 912, POLYETHYLENE BASIN, PRE-PLUMBED, GAS TIGHT PSF COVER. 500 TOP VENT. 500 TOP DISCHARGE, MODEL No. BN57 PUMP WITH INTEGRAL FLOAT, CAPABLE OF 19 USGPM FLOW @ 15.0 FT. HEAD, 1/3 HP MOTOR, 115V POWER, HIGH WATER ALARM, WITH Z-CONTROL (WFI)

Key to Detail Location

NO.

NO.

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architects

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MOUNT DENNIS CHILDCARE CENTRE 1234 WESTON ROAD, TORONTO, ON M6M 4P8

MECHANICAL SCHEMATICS & DETAILS

scale: date: drawn: checked by: CS&P project number: RMA project number: drawing number:

NOTED 03/02/18 B.C. R.M. 17026 RMA-17-05 M-15

PLUMB	ING LEGEND
	DOMESTIC COLD WATER
	DOMESTIC HOT WATER
т	TEMPERED WATER
	DOMESTIC HOT WATER RECIRCULATION
	SANITARY ABOVE FLOOR SLAB
	SANITARY BELOW FLOOR SLAB OR GRADE
	SANITARY VENT
ST	STORM ABOVE FLOOR SLAB
— — st — —	STORM BELOW SLAB OR GRADE
F	FIRE LINE
SP	SPRINKLER LINE
	PIPE TURNING DOWN
o	PIPE TURNING UP
	CAPPED PIPE END
	GLOBE VALVE
	REDUCER/INCREASER
	SHUT OFF VALVE
	CHECK VALVE
B.V.	BACKWATER VALVE
	TRAP
<u> </u>	FLOOR CLEANOUT
<u> </u>	LINE CLEANOUT
д w.н.	WALL HYDRANT C/W VACUUM BREAKER (NON FREEZE HOSE BIBB)
► EW	EYE WASH
<mark>++</mark> HB	HOSE BIBB C/W VACUUM BREAKER
	SHOWER HEAD
⊖ F.D.	FLOOR DRAIN
⊖ F.F.D.	FUNNEL FLOOR DRAIN
() R.D.	ROOF DRAIN
(Ô) (R.D.)	ROOF DRAIN ABOVE
() A.D.	AREA DRAIN
(Ô) (A.D.)	AREA DRAIN ABOVE
(XX)	PLUMBING FIXTURE OR DRAIN AT FLOOR ABOVE

MECHANICAL ABBREVIATIONS:

MEC	<u>HANICAL ABBREVIATI</u>
A.A.V :	AUTOMATIC AIR VENT
B.A.S. :	BUILDING AUTOMATION SYSTEM
CIRC :	CIRCULATION
C.B.V. :	CIRCUIT BALANCING VALVE
C.W. :	COLD WATER
C/W :	COMPLETE WITH
DOM :	DOMESTIC
E/A :	EXHAUST AIR
F/A :	FRESH AIR
GHX :	GROUND HEAT EXCHANGER
HTG :	HEATING
HP :	HEAT PUMP (WATER-TO-AIR)
H.W. :	HOT WATER
H.W.R. :	HOT WATER RETURN
M.A.V. :	MANUAL AIR VENT
N.F.H.B. :	NON FREEZE HOSE BIBB
PV/T :	PHOTOVOLTAIC THERMAL
R/A :	RETURN AIR
S :	SINK

SAN : SANITARY

S/A : SUPPLY AIR SPKR : SPRINKLER

WHP : HEAT PUMP (WATER-TO-WATER)

F.D.	
<u>։ լ</u>	
B.D.()
A.D.	
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—— HPS —	
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—— HWR —	
—— GHWS -	_
. –	
GHWR _	
GHXS -	
	_
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A.A.V.	
A.A.V. A.C.	
A.A.V. X D.C. X	
A.A.V.	
→ → → → → → → → → → → → → → → → → → →	
A.A.V.	
Image: Constraint of the second s	

H.V. <i>A</i>	A.C. LEGEND
$\mathbb{M}$	SUPPLY AIR DUCT TURNING UP
	RETURN/EXHAUST AIR DUCT TURNING UP
X	SUPPLY AIR DUCT TURNING DOWN
	RETURN/EXHAUST AIR DUCT TURNING DOWN
3	SUPPLY DIFFUSER OR GRILLE
1	RETURN/EXHAUST/TRANSFER GRILLE
F.S.F	FIRE STOP FLAP
<b>F.D.</b>	FIRE DAMPER
<b>B.D.</b>	BALANCING DAMPER
B.D.D.	BACKDRAFT DAMPER
A.D.	ACCESS DOOR
	FLEXIBLE DUCT
>s —	HEAT PUMP SUPPLY PIPE
PR ——	HEAT PUMP RETURN PIPE
ws ——	HEATING WATER SUPPLY PIPE
WR ——	HEATING WATER RETURN PIPE
ws ——	GLYCOL HEATING WATER SUPPLY PIPE
WR ——	GLYCOL HEATING WATER RETURN PIPE
xs —	GROUND-HEAT EXCHANGER SUPPLY PIPE
XR —	GROUND-HEAT EXCHANGER RETURN PIPE
>	CONDENSATE DRAIN PIPE
	PIPE TURNING DOWN
0	PIPE TURNING UP
	CAPPED PIPE END
<	GATE VALVE
à	CIRCUIT BALANCING VALVE
×1	GLOBE VALVE
←	CHECK VALVE
	MOTORIZED THREE-WAY VALVE
<b>—</b>	MODULATING THREE-WAY VALVE
<u>_</u>	STRAINER
<u>٦                                    </u>	AUTOMATIC AIR VENT
	DRAIN COCK
\$ <u> </u>	FLOW SWITCH
*** <b>I</b>	FLEXIBLE CONNECTION FOR PIPE
<hr/>	BUTTERFLY VALVE
	PUMP
<u></u>	PRESSURE GAUGE
P	DIAL THERMOMETER
	THERMOMETER
T	TEMPERATURE SENSOR
	PRESSURE SENSOR
 	PIPE UNION
 	HUMIDITY SENSOR
0	CARBON DIOXIDE SENSOR
- M	TWO-POSITION CONTROL ACTUATOR
A)	MAKE UP WATER METER
-	MODULATING CONTROL ACTUATOR
D	THERMOSTAT
อี	THERMOSTAT C/W GUARD
 Τ	AIR TEMPERATURE SENSOR
T	AIR TEMPERATURE SENSOR C/W GUARD
-	

Key to Detail Location

NO.

NO. /

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![](_page_46_Picture_22.jpeg)

![](_page_46_Picture_23.jpeg)

Geothermal / Energy Consultants

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MOUNT DENNIS CHILDCARE CENTRE 1234 WESTON ROAD, TORONTO, ON M6M 4P8

# MECHANICAL SCHEMATICS & DETAILS

scale: date: drawn: checked by: CS&P project number: RMA project number: drawing number:

NOTED 03/02/18 B.C. R.M. 17026 RMA-17-05

M-17 Revision:

															ΗE	AT F	RECO	VER \	/ UNI	IT SC	CHED	ULE													
									SUPP	LY FAN					EXHAUS	ST FAN							AIR-TO-AIR	HEAT EXCHA	NGER (ENT	HALPY WHI	EEL)					· · ·	ELECTRICA	.L	Τ
									SPEED	EAN	MOTOR	POWER			SPEED		MOTOR	POWER				SUMMER						WINTER			$\rightarrow$	DOWER			. 1
DESIGNATION	MODEL	UNIT SIZE		CONFIGUE	RATION		FLOW	STATIC PRESS	GREED	POWER EFFICIENCY	RATED	BRAKE	FLOW	STATIC PRESS	SFEED	POWER	R RATED	BRAKE	OUTDOOR AIR TEMP.	RETURN AIR TEMP.	SUPPLY AIR TEMP.	Y CAPACITY	SENSIBLE EFFICIENCY OF SUPPLY AIR	LATENT EFFICIENCY OF SUPPLY AIR	OUTDOOR AIR TEMP.	RETURN AIR TEMP.	SUPPLY AIR TEMP.	CAPACITY	SENSIBLE EFFICIENCY SUPPLY AII	OF EFFICIEN R SUPPI	ENT NCY OF LY AIR		M.C.A.	OR BREAKEF SIZE	2
HRU–1	GOLD RX (INDOOR)	25	LEFT-HA SUPPLY	ND VERSION, FAN FAN OUTLET FOR	ARRANGEMEN UPWARD AIR	NT 1, DISCHARGE	(cfm) 3000	(inches) 0.8	(крм) 1289	(W/cfm) 0.27	(hp) 4.6	(hp) 1.07	(cfm) 2500	(inches) 0.8	(RPM) 1214	(W/cfm 0.27	1) (hp) 4.6	(hp) 0.9	(+) 95.0 dB 40% RH	(*) 75.0 dB 50% RH	(+) 79.7 dB 50% RH	(KB10/H) 3 98.2	(%) 76.4	(%) 66.0	(+) -5.0 dB 100% RH	(1) 70.0 dB 30% RH	(1+) 52.3 dB 44% RH	(KBTU/H) 230.0	(%) 76.5	74	%) 4.5	(V/PH/HZ) 600/3/60	(Amps) ) 9.55	(Amps)	(LEN 92.3
NOTES: - 1. 2. 3.	UNIT TO BE CAPAI HEAT RECOVERY U UNIT C/W TRANSF	ble of B Jnit Modi Ormer T	EING SPLIT EL SCHEDU O CONVER	T INTO THREE SE LED MANUFACTU T BUILDING 3 PH	ECTIONS TO IRED BY 'SV IASE 208 V	FACILITATE VEGON'. PR OLT POWER	E TRANSPO ROVIDE SCI R SUPPLY	DRT WITHIN HEDULED EG TO UNITS G	THE BUI QUIPMEN 600 VOL	ILDING SITE. T OR APPRO T POWER SU	VED ALTEF	RNATE. P LOOSE	FOR FIEL	D INSTALL	ATION WIT	TH UNIT.					r - -	revised to: Power: 208 -MCA: 37.5	SV/3PH/60Hz												
PRE	-HEAT IND	IREC	T DOM	ESTIC HO	T WAT	ER TA	ANK S	CHEDI	JLE			ELEC	TRIC	DOMES	STIC	нот у	WATER	BOC	)STER	TANK	SCH	IEDULE						AUXII	_IARY [	DUCT	MOU	JNTED	HEAT	ING CO	JIL
DESIGNATION	MANUFACTURER	MODEL NO.	STORAGE CAPACITY (US GAL)	HEAT EXCHANGER SURFACE/VOLUME	HTG. WATER FLOW (GPM)	HEX P.D. (ft. WG)	HTG. WATE INPUT (Btu/Hr)	R HTG. WAT TEMP. IN (°F)	TER SIZ N (DIA.	ZE x HT.)	DESIGNAT		NUFACTURER	MODE NO.	L STO CA (US	TORAGE APACITY HE S GAL)	TOTAL IEATER INPUT (kW)	ELEMENT (kW)	RECOVER	Y TEMP. RISE IR) (T) (I	SIZE DIAxHT IN)	Power Suppl (V/Ph/HZ)	FULL LOAD AMPS	DESIGNATIO	ON SERVIC	E MANU	JFACTURER	MODEL NO.	. AIR FLOW	CAP. E	INT. AIR DB	LVG. AIR DB	FACE VELOCITY	AIR FI PRESS. FI DROP	
DWH-1 & 2	HTP SS	U—119DW	119	15 S.Q.FT/1.5 GAL	12.0	15.9	60,000	125	27" >	« 74 <b>"</b>	DWH-3	BRAI	DFORD WHITI	E CEHD5013	5.53*CF 5	50.0	13.5	4.5	224	25	28x72	600/3/60	13.0						(CFM)	) (MBH)	(۴)	(۴)	(FT/MIN)	(IN.) (G	;PM)
NOTES:							I				NOTES:													HC-1	HRU-	GRE	ENHECK	HW58S02	-08 3000	146	-5.0	40.0	389	0.10 3	1.5
1. EACH TANK WITH 1"Ø NI CONNECTION 2. PROVIDE SC	AND HEAT EXCHANGER PT INLET AND OUTLET C IS, T&P RELIEF VALVE P HEDULED EQUIPMENT OR	SHALL BE CONNECTIONS PORT, TANK & APPROVED	316L STAINL S, 2" THICK SENSOR WEI O ALTERNATE	ESS STEEL CONSTRUNSULATION, PLASTIC	iction, doubl ) Jacket, 1–1	E WALL HEAT /2*ø hot an	t exchange Nd cold wa	R TER			1. TANK T&P R 2. PROVID	Shall be Elief valv De schedu	C/W 3" Thi Ve, Brass D Jled Equipm	ck foam insi Rain Valve Ient or Appi	ULATION, 1- ROVED ALTE	-1/2 <b>*</b> ø hot Ernate.	「& COLD WATI	ER CONNEC	TIONS, HAND	HOLE CLEAN		RMOSTAT,		NOTES: 1. F 2. F 3. F	LUID MEDIUN HEATING CAP PROVIDE SCHEI	I SHALL BE ACITIES BA DULED EQUIP	E 40% PROF ASED ON 12 PMENT OR AP	PYLENE GLYC 20°F ENTERING PPROVED ALTE	OL. G FLUID TEMF RNATE.	PERATURE.					
			١	VATER-TO	D-WAT	ER HE	έατ ρ	UMP S	SCHE	DULE							I				AZED I	plate H	EAT EXCH	HANGER D	DESIGN	CRITER	IA				B	UFFER	TANK/	'HYDRAI	JLIC
DESIGNATION	MODEL		DAD SIDE (HO	T)		SOURC	E SIDE (COL	D)		ELECTRIC						DESI	GNATION	SER	VICE			SOURCE SIDE			LO	AD SIDE		HE/ EXC	AT PLA 'H'D	TE	DE'	SIGNATION	SERVIC		FACTUR

PRE-HEAT INDIRECT DOMESTIC HOT WATER TANK SCHEDULE													
DESIGNATION MANUFACTURER		MODEL NO.	STORAGE CAPACITY (US GAL)	HEAT EXCHANGER SURFACE/VOLUME	HTG. WATER FLOW (GPM)	HEX P.D. (ft. WG)	HTG. WATER INPUT (Btu/Hr)	HTG. WATER TEMP. IN (°F)	SIZE (DIA. x HT.)				
DWH-1 & 2	HTP	SSU-119DW	119	15 S.Q.FT/1.5 GAL	12.0	15.9	60,000	125	27" x 74"				

	WATER-TO-WATER HEAT PUMP SCHEDULE																	
	MODEL			load sic	DE (HOT)					SOURCE SI	DE (COL	D)		ELECT	RICAL			
DESIGNATION	NO.	HEATING CAPACITY	EWT	LWT	fluid Medium	FLOW	P.D.	EWT	LWT	fluid Medium	FLOW	P.D.	COP	POWER (V/PH/HZ)	MIN CIR. AMPS	Max Fuse Amps	UNIT DIMENSIONS (WIDTH x DEPTH x HEIGHT)	APPROX. WEIGHT (LB)
		(MBH)	(F)	(Ŧ)		(GPM)	(ft. WG)	(Ŧ)	<b>(</b> F)		(GPM)	(ft. WG)						
WHP-1,2,3,4 & 5	CMS060	42.5	114.4	125.0	WATER	8.0	11.5	40.0	32.6	25% PROPYLENE GLYCOL	8.0	12.2	2.9	600/3/60	6.1	15.0	12-1/4" x 28" x 36-5/8"	265
NOTES: 1. SCHED	ULED PER	FORMANC	E IS FO	R EACH	I UNIT.											$\overline{\ }$	revised to:	

NOTES: 1. SCHEDULED PERFORMANCE IS FOR EACH UNIT. 2. UNIT CONTROLLER TO BE COMPATIBLE WITH B.A.S. BACnet COMMUNICATION.

-Power: 208V/3PH/60Hz 3. WATER-TO-WATER HEAT PUMP MODEL SCHEDULED MANUFACTURED BY 'COMPAX' PROVIDE SCHEDULED EQUIPMENT OR APPROVED ALTERNATE. - MCA: 17 -MOP: 30

						WAT	FER-T	0—AIF	R HEA	T PUN	/IP S	CHED	JLE				
DESIGNATION	CABINET CONFIGURATION	MODEL NUMBER	NOMINAL CAPACITY	SUPPLY AIR FLOW	E.S.P.	GROSS COOLING CAPACITY	GROSS SENSIBLE COOLING	E.E.R.	GROSS HEATING CAPACITY	C.O.P.	FLUID FLOW	FLUID P.D.	ELECT POWER	MIN CIR.	MAX	APPROX. WEIGHT	REMARKS
			(TONS)	(CFM)	(in. WG)	(MBH)	(MBH)		(MBH)		(GPM)	(ft. WG)	(V/PH/HZ)	AMPS	AMPS		
HP-1	VERTICAL	VSVE050	4.2	1700	0.6	53.67	37.22	18.70	44.25	3.70	10.4	3.4	208/1/60	29.25	45	460	VARIABLE SPEED COMPRESSO
HP-2,3	VERTICAL	EXVF009	0.75	315	0.4	9.11	7.59	16.38	7.82	3.72	1.9	3.8	208/1/60	5.24	15	165	SINGLE STAGE COMPRESSOR,
HP-4,5,6	VERTICAL	DXVF024	2.0	835	0.4	27.97	19.58	20.20	21.58	4.0	5.0	8.5	208/3/60	10.70	15	270	TWO STAGE COMPRESSOR, E
HP-7,8,11,12 & 13	HORIZONTAL	VSHE024	2.0	840	0.4	26.16	20.14	21.80	20.60	4.30	5.0	3.2	208/1/60	12.47	20	335	VARIABLE SPEED COMPRESSO
HP-9	HORIZONTAL	EXHF009	0.75	315	0.4	9.51	7.60	16.0	7.56	3.63	1.9	4.0	208/1/60	5.23	15	165	SINGLE STAGE COMPRESSOR,
HP-10	HORIZONTAL	VSHE042	3.5	1485	0.4	44.52	35.17	22.0	34.97	4.50	8.7	2.9	208/1/60	18.41	30	460	VARIABLE SPEED COMPRESSO
HP-14	VERTICAL	EXVF018	1.5	625	0.4	19.47	15.18	17.71	16.08	3.44	3.7	4.52	208/1/60	13.50	20	265	SINGLE STAGE COMPRESSOR,
HP-15	HORIZONTAL	EXHF012	1.0	420	0.4	12.23	9.78	17.73	10.13	3.45	2.5	4.6	208/1/60	8.60	15	175	SINGLE STAGE COMPRESSOR,

NOTES: 1. FOR VARIABLE SPEED AND TWO-STAGE HEAT PUMPS PERFORMANCE SHOWN IS FOR HEAT PUMP OPERATING AT FULL LOAD AT SCHEDULED DESIGN CONDITIONS.

2. C..O.P. AND E.E.R. PERFORMANCE SHOWN AT AHRI/ISO 13256-1 FULL LOAD CONDITIONS.

3. FLUID MEDIUM SHALL BE 25% PROPYLENE GLYCOL.

4. COOLING CAPACITIES BASED ON 77'F E.W.T. & 80'F/67'F E.A.T.

5. HEATING CAPACITIES BASED ON 40°F E.W.T. & 70°F E.A.T. 6. ALL UNITS SHALL BE EQUIPPED SUITABLE FOR EXTENDED RANGE GEOTHERMAL OPERATION INCLUDING INTERNAL PIPE INSULATION. DELUXE SOUND ATTENUATION PACKAGE, MOTORIZED TWO-WAY (ON-OFF) WATER FLOW CONTROL VALVE, DISCONNECT SWITCH, S.S. BRAIDED HOSE KIT WITH AUTOMATIC BALANCING VALVE, Y BALL STRAINER WITH BLOW DOWN VALVE AND HOSE CONNECTOR. 7. UNIT CONTROLLER TO BE COMPATIBLE WITH B.A.S. BACnet COMMUNICATION.

8. SPACE TEMPERATURE SENSOR BY B.A.S. CONTRACTOR.

9. REFER TO SPECIFICATIONS FOR ADDITIONAL DETAILS.

10. WATER-TO-AIR HEAT PUMP MODELS SCHEDULED MANUFACTURED BY 'TRANE'. PROVIDE SCHEDULED EQUIPMENT OR APPROVED ALTERNATE.

			///////////////////////////////////////	
See MSK-005 for revised schedule	FORCE FLO	N/HEATER/SCHEDULE		
	HIG FLOW COIL PRESSURE AIR FLOW	FAN ELECTRICAL POWER SUPPLY	UNIT SIZE WEIGHT	SEMI-RECESSED FRONT PANEL
DESIGNATION TYPE MODEL NO. CAPAC	)) (gpm) (f.t.) (cfm)	HEED CONSUMPTION (VOLTS/WATTS)	(HEIGHT x LENGTH x DEPTH) (16s,)	(HEIGHT * LENGTH * DEPTH)
FF-1A, FF-18 BUILD-IN-WALL 2-PIPE 8,04	8 1.6 4.7 215	10y 0.07 24VDC/15.6W	20.5"x28,3"x4.6" 35	28,3"×.37.4"×0.6"
FF-2A, FF-2B, BRIZA BZBC.05207200 FF-4, FF-5 BUILD-IN-CEILING 2-PIPE 8,044	8 1.6 4.7 215	10y 0.07 24VDC/15.6W	20.5"x28.3"x#.6" 35	28,3*x,37.4*x0,6*
FF-3 BUILD-IN-CEILING 2-PIPE 12,83	0 2.6 16.15 302	10y 0.10 24VDC/28.8W	20.5"x40/2"x#.6" 61	28,3*x49.2*x0,6*
NOTES:				

1. FORCE FLOW HEATER SELECTION IS BASED ON JAGA 'BRIZA EC 12' PROVIDE SCHEDULED EQUIPMENT OR APPROVED ALTERNATE.

2. CAPACITIES BASED ON 120'F ENTERING AND 110'F LEAVING WATER

TEMPERATURES, 68°F ENTERING AIR TEMPERATURE, AND FAN SPEED AT MAX SPEED.

3. EACH UNIT C/W 90° AIR NOZZLE, FRONT PANEL, ON-OFF CONTROLLER FOR USE WITH 0 TO 10V SIGNAL FROM BUILDING AUTOMATION SYSTEM.

4. EACH UNIT C/W 120VAC INPUT/24 VDC 36W OUTPUT TRANSFORMER.

5. PROVIDE RIGHT HAND COIL CONNECTION WHERE SHOWN ON PLANS. 6. FRONT PANEL COLOR BY ARCHITECT.

	EXPANSION	I TANK S	SCHEDUL	E	
DESIGNATION	SERVICE	MODEL NO.	TANK VOLUME (GALLONS)	MAX. ACCEPT. (GALLONS)	SIZE (DIA.xHT. IN.)
ET-1	BUILDING HEAT PUMP LOOP & GROUND HEAT EXCHANGER LOOP	EXTROL SX-60V	32	11.5	15.4 x 46.5
ET-2	HEATING WATER LOOP	EXTROL SX-30V	14	11.5	15.4 x 23.9
ET-3	GLYCOL HEATING LOOP	EXTROL 30	4.4	2.5	11.0 x 15.5
ET-4	DOMESTIC HOT WATER	THERM-X-TROL ST-30V	14.0	11.3	15.0 x 24.0
ET-5	PV/THERMAL GLYCOL LOOP	EXTROL AX-40V	21.7	11.3	16.0 x 30.0

NOTE: EXPANSION TANK MODELS SCHEDULED MANUFACTURED BY 'AMTROL' PROVIDE SCHEDULED EQUIPMENT OR APPROVED ALTERNATE.

REC	ОV	/ERY l	JNIT	SCH	EDL	JLE																			Key to Detail Location		
N		DOWED					AIR-TO-AIF	r he <i>f</i>	AT EXCHANG	ER (ENTHALP	WHEEL)	)					E	LECTRICAL					1		NO.	Detail Number	۲.
	TED	BRAKE OUT	DOOR RET	TURN SU	JPPLY		SENSIBLE			UTDOOR RET	JRN SL			SENSIBLE			OWER	M.C.A.	MAX. FU	se Ker	SIZE	APPROX WEIGHT			NO.	Drawing Numbe	
ENCY			AIR A EMP. TE	AIR EMP. T	AIR EMP.		SUPPLY AIR	SU	PPLY AIR	AIR A TEMP. TE	R MP. T	AIR TEMP.		SUPPLY AIR	SUPPLY	AIR	оц <i>(</i> ц <del>7</del> )	(4	SIZE			r) (IF )			If this sheet is not 33 1/8" .	23 3/8" (841 x 594 mm) It	is a reduced print
27 4	ip) 6	(np) ( 0.9 95.	.0 dB 75.0	) ( 0 dB 79	.7 dB	(KB10/H) 98.2	(%)		(%)	-5.0 dB 70.0	) dB 52	(F) (KB	30.0	(%)	(%)	600		(Amps)	(Amps	92 33 x		9 1850	-		- Read dwg, accordingly.	23 3/6 (041 x 334 mm) it	is a reduced print
./ 4	.0	0.9 40	% RH 50%	% RH 50	% RH	90.2	70.4			00% RH 30%	RH 44	% RH	50.0	70.5	74.5	000	5700	<u>//</u>	K 10		wised to:	9 1850	_		Contractors must check an any discrepancies to the A	d verify all dimensions on t rchitect before proceeding	he job and report with the work
					rev	vised to:														P	ower: 208V/	3PH/60Hz			All prints and specification	are the property of the Ar	chitect and must be
Т.					-P0	CA: 37.5	V/3PH/00H2	2												-N -N	/ICA: 31A //ax Breaker S	Size: 50A			Drawings should not be set	of the work.	
- \// T	FP	BUUSI	ER TA		СЦЕ			Ē				Δ		ARY D	LICT M		TFD	ΗΓΔΤΙ							Drawings should not be sca	ieu.	
							5.00		DESIGNATION	SERVICE	MANUFAC		MODEL		CAP. ENT.		G. AIR	FACE			UID FIN	FIN RC	OWS FIN		No Date		ssued
HEATER IN	IPUT			ISE		OWER SUPPLY (V/PH/HZ)							NO.	FLOW	D	B	DB	VELOCITY	PRESS. DROP	FLOW PRI	ess. Height Rop	WIDTH	SPACING		0 18-06-29	Issued for 50% Co	ntract Documer
(kW)		(kW) (US	GAL/HR) (1	F) (DIAxH	IT IN)	600 12 100								(CFM)	(мвн) (1	F) (	( <b>°</b> F)	(FT/MIN)	(IN.)	(GPM) (FT.	WG) (IN.)	(IN.)	(FINS/IN.)		1 18-08-03	Issued for 70% Co	ntract Documer
13.5		4.5	224 2	20 2027	/2	/000/3/00/			HC-1	HRU–1	GREENHI	ECK H	W58S02F0	B 3000	146 -	5.0 4	40.0	389	0.10	31.5 4	.2 28.5	40.0	2 8		2 18-09-11	Issued for Progres	S
HOT & COLD	WATE	R CONNECTIONS	, HAND HOLE	CLEAN OUT	, Thermo	OSTAT,		N	OTES: 1. FLU	D MEDIUM SHA	L BE 40	% PROPYLEN	IE GLYCOL	I	•				I			•			3 18-09-26	Issued for 95% Co	ntract Documer
									2. HEA 3. PRO	TING CAPACITIE	s based Equipment	on 120°F e I or approv	.ntering Ed altern	fluid tempe Ate.	RATURE.										4 18-10-03	Issued for Permit	
				BRA7F		ΔΤΕ ΗΕ		ΗΔΝ			FRIA								חחאוו						5 19-04-05	Issued for Tender (	lient Review
DESIGNATION		SERVICE											HEAT	PLATE		BUF											
		OLIVIOL			S0	OURCE SIDE				LOAD SI	E		EXCH'	D	-	DESIGNA	TION	SERVICE	МА	NUFACTURER	MODEL ST NO C/	TORAGE	SIZE xHT. IN.)				
			FI   (0	ΊLOW   IN GPM)   (Ί	TEMP. 0 F)	UT TEMP.  F ('F)   I	Fluid P Medium (f	Р.D. FT.)	FLOW IN (GPM) (	TEMP.  OUT TEM F)   (°F)	P. FLUID MEDIU	M (FT.)	(MBH								(U	S GAL)					
HE-1		HEATING COIL	HC-1 2	29.5 12	25	115	WATER M	IAX.	31.5 1 ⁻	0 120	40% PROPYL	ENE MAX	· 146.0	SINGLE V 316L S.S	VALL			HEATING WA	ATER L	OCHINVAR	BVU120	120 32.0	0 x 59.5				
HE-2		PV/THERMAL S	YSTEM 2	27.6 1	10	100 PF	0% M ROPYLENE E	IAX.	25.6 9	5 105	25%	ENE MAX	· 123.0	SINGLE V	VALL	1. TANK		BE C/W 2" T	THICK INSU	LATION, PRE-P	AINTED JACKET,		VE				
DTE: 1. WOR	KING F	PRESSURE SHALL	 _ BE_MINIMUM	150 PSI.		GL		.0			GLYCOL	.   5.0		316L 5.5	•	1"ø R	RELIEF VA	LVE, AND AU		AIR VENT	SENSOR WELL, I	P DRAIN VAL	.v <b>L</b> ,				
	<b>.</b> r															2. PROV	ide sche	JULED EQUIF	PMENT OR	APPROVED AL1	IERNATE.						
					Γ							DII															
					┝	I				בו ווייס		ΓU				NOTO	)R	MOTO									
		REMARKS			D	DESIGNATION	SERV	VICE		MEDIUM		MODEL		FLOW HEAD	RPM	POWE	R	POWER SU	, JPPLY HZ)	REMARKS	i						
					⊢	P_1		)0P		25%	MAG	NA3 65-150	F	111 AO		29 WATTS	(MIN.)	208/1/	/60 /00	TY/STAND-RY	OPERATION FACT	PUMP	Rouice rem	arks for D 1			
					-					PROPYLENE GLYC		NA3 00 100	- -	444 40		1301 WATT 29 WATTS	'S (MAX.) (MIN.)	200717		W INTEGRATED	NFD PUMP STOP ROLLED BY B.A.S.	/START	P-2, P-3, a	and P-4 to	consultants		
NABLE SPE	ED C	OMPRESSOR, I	ECM FAN MC	DTOR,	_	P-2	HEAT PUMP LU	JUP		PROPYLENE GLYC	OL MAG	5NAJ 03-13U	r	40	-	1301 WATT	S (MÁX.)	208/1/	60				OPERATIO	ON, WITH	architects	COOLEARTH A 386 Pacific Ave Toronto, ON N	
						P-3	GROUND-HEAT	EXCHA	ANGER LOOP	PROPYLENE GLYC		SNA3 65-120	F	75 30	-	769 WATTS	S (MAX.)	208/1/	60 00	VINTEGRATED	OPERATION, EACH VED, PUMP STOP		BACK-UP DU MODE EACH	TY/STAND BY 1 PUMP C/W		Phone: 416-868	5P 2R1 5-9774
GLE STAGE	сом	IPRESSOR, ECM	A FAN MOTO	DR,		P-4	GROUND-HEAT	EXCHA	ANGER LOOP	PROPYLENE GLYC	OL MAG	SNA3 65-120	F	75 30	-	20.5 WATTS 769 WATTS	S (MIN.) S (MAX.)	208/1/	⁶⁰	D SPEED CONT	RULLED BY B.A.S.		INTEGRATED STOP/START	) VFD, PUMP F AND SPEED		CS&P ARCHIT	ECTS INC. Suite 200
						P-5	WATER-TO-WA LOAD SIDE	TER HE	EAT PUMPS	WATER	MAG	SNA3 40-80 F	-	40 20	-	16 WATTS 276 WATTS	(MIN.) 5 (MAX.)	120/1/	60 C/ AN	W INTEGRATED	VFD, PUMP STOP ROLLED BY B.A.S.	/START	CONTROLLE PARALLI	D BY BAS VIA EL PUMP		Toronto, ON. M Phone: 416-48'	4P 2E5 2-5002
) STAGE C	OMPR	ESSOR, ECM F	AN MOTOR,			P-6	HEATING WATER	r loop	<b>&gt;</b>	WATER	MAG	SNA3 40-180	F	40 35	-	16 WATTS 607 WATTS	(MIN.) 5 (MAX.)	208/1/	/60 C/ AN	W INTEGRATED	VFD, PUMP STOP ROLLED BY B.A.S.	/START	CONTR	OLLER"	structural engineer	STEPHENSON	
						P-7	HEATING COIL I	HC—1		40% PROPYLENE GLYC		SNA3 40-80 F	-	31.5 20	-	16 WATTS 276 WATTS	(MIN.) S (MAX.)	120/1/	60 C/	W INTEGRATED	VFD, PUMP STOP, ROLLED BY B.A.S.	/START			Ŭ	2550 Victoria P Toronto, ON M	ark Ave., Suite 602 2J 5A9
RIABLE SPE	ED C	OMPRESSOR, I	ECM FAN MC	DTOR,		P-8	DOMESTIC HOT	WATER	R RE-CIRC.	WATER	UP	43–44 BF		5 13	-	215 WA	ATTS	120/1/	60 AL	L BRONZE CON	STRUCTION, PUMP					Phone: 416-635	-9970
					F	P-9	PV/T HEAT EX	CHANG	ER HE-2	25%	AL MAG	NA3 32-60 f		25.6 10	-	8.5 WATTS	(MIN.)	120/1/	60 C/	W INTEGRATED	VFD, PUMP STOP	, /start			mechanical & electrical engineer	R MANCINI AN 30 Martha St S	D ASSOCIATES uite 203
IGLE STAGE	сом	IPRESSOR, ECM	A FAN MOTO	DR,		P-10	PV/T HEAT EX	CHANG	ER HE-2	50%		NA3 40-120	F	27.6 30	-	16 WATTS	15 (MAX. (MIN.)	120/1/	60 C/	W INTEGRATED	VFD, PUMP STOP	/START			Ĵ	Bolton, ON L7E Phone: 905-95	5V1 I <i>-</i> 6292
					Ľ				P_1 TO P_1	PROPYLENE GLYC							S (MAX.)	BAS	AN	d speed cont	ROLLED BY B.A.S.				landscape architect	PMA LANDSC/	APE ARCHITECTS LTE
RIABLE SPE	ED C	OMPRESSOR, I	ECM FAN MC	DTOR,	•	2. Pl	UMP MODELS	SCHED	DULED MANU	ACTURED BY '	RUNDFOS	S' PROVIDE S	SCHEDULE	D EQUIPMEN	T OR APPRO	VED ALTE	RNATE	0.7.3.								359 Keele Stree Toronto, ON, M	it 16P 2K6
																										Phone: 416-239	-9818
IGLE STAGE	СОМ	IPRESSOR, ECM	FAN MOTO	DR,																					civil engineer	MASONGSONG ENGINEERING 7800 Kappady	) ASSOCIATES LTD.
												C	EMA	ND CO	NTROL	VEN	TILA	TION I	мотс	RIZED	DAMPER	SCHE	EDULE			Markham, ON, Phone: 905-94	3R 2C7 -0162
IGLE STAGE	сом	IPRESSOR, ECM	I FAN MOTO	DR,								FLOOR	DAMP	ER All	RFLOW	DUCT		ER CO	) ²	REMARKS	Hf	RU OPERATIO	ON MODE		PROJE		
													TAG			SIZE		IOR SENS			REGUL	AR	RESILIENCY	4	N N	DP	ROFESSION
																	NOITIS	DUNT OUNT	MOUN		MIN.	MAX.	0.44950			$\lambda$	MA 17-05 E
																	04 -0	DULA	DUCT		AIRFLOW (CFM)	AIRFLOW (CFM)	DAMPER POSITION			) ( <b>A</b> ;	MANCINI
																	TW	M N	R/A								19/05/07
(ON-OFF)	WAT	ER FLOW											MD-	1 FRESH	AIR SUPPLY	26"x10"	•			_	DAMPER FULLY (	to be d Dpen f	Damper to be Fully closed			ULIN N	CE OF ONTA.
											7		MD-	2 GENERA	L EXHAUST	16"x14"	•			-	DAMPER FULLY (	TO BE D DPEN F	Damper to be Fully closed				
		DIFFU	SER, (	GRILLE	e an	ID REC	GISTER	SC	HEDUL	-		BASEMEN	T MD-	3 SANITAR	Y EXHAUST	8"x6"	•			-	DAMPER FULLY (	to be d Dpen f	Damper to be Fully closed		R	Mancin	i
	CLA	RIFICATION		- GRILLE	SIZE	OR NECK	SIZE (MM)						MD-	4 FRESH	AIR SUPPLY	24"x10"		•	•	-	590	1390	-	1		d Associates Li	.d.
	SYME	30L(		$\rightarrow$									MD-	5 GENERA	L EXHAUST	14"x10"		•	D	AMPER POSITI TRACKS MD-4	ON O	710	_	1	Geo	nermal / Energy Consultan 30 Martha St., Suite 203, Boltor	تs ۱, Ontario L7E 5V1
						(L/3)				- 1	_		MD-	6 FRESH /	AIR SUPPLY	8"x8"		•			160	230	MIN.	1	Tel: (4 Website: www.u	то) 236-2626, (905) 951-6292 Fa jeothermax.com E-mail rmancini≬	x: (905) 951-0305 ⊉geothermax.com
RE	.F. M	ANUFACTURER	SIZE			Т	YPE	_	MOD		5		MD-	7 SANITAR	Y EXHAUST	8"x4"				AMPER POSITI TRACKS MD-(	0N 50	90	MIN.	1			
A		E.H. PRICE	AS SHOW	WN	S CEIL	SQUARE PLAQ	QUE SUPPLY AII R (600x600 FA	R ACE)	SP	OBD			MD-	8 FRESH /	AIR SUPPLY	8"x8"		•			160	230	MIN.	1			
В		E.H. PRICE	AS SHOW	WN	S CEIL	SQUARE PLAQ LING DIFFUSE	QUE SUPPLY All R (300x300 FA	R ACE)	SPI	OBD			MD-	9 SANITAR	Y EXHAUST	8"x4"				TRACKS MD-8	B 50	90	MIN.	-			
		E.H. PRICF	AS SHOW	wn	S CFII	SQUARE PLAC	UE SUPPLY AI	R ACE)	VPD-	нс –		GROUND	MD-1	0 FRESH /	AIR SUPPLY	8"x6"		•			140 ON	200	MIN.	4			
Ļ	+				<u> </u>		IG & COOLING				_		MD-'	11 SANITAR	Y EXHAUST	8"x4"				RACKS MD-1	0 50	90	MIN.	4	1234 WESTON ROAL		
D		E.H. PRICE	AS SHOW	WN	DOUBLE (	DEFLECTION -	- 3/4" BLADE	SPAC	ING 620	D OBD	_		MD-1	2 FRESH	AIR SUPPLY	8"x6"		•			140 ON	200	MIN.	4		MECH/	NICAL
E		E.H. PRICE	AS SHOW	WN		ALUMINUM E EXHAUST	LGG CRATE FAC AIR REGISTER		800	OBD			MD-1	3 SANITAR	Y EXHAUST	8"x4"			1	RACKS MD-1	2 50	80	MIN.	4		SCHF	DULES
	+	<b>P.</b>					G CRATE FACE	,			-		MD-1	4 FRESH /	AIR SUPPLY	8"x6"		•			140 ON	200	MIN.	4			
F		E.H. PRICE	AS SHOW	WN	T <del>F</del> 1	KANSFER/RE1 1/2"x1/2"x1/	URN AIR GRILL 2" GRID CORE	£	80	-			MD-1	5 SANITAR	Y EXHAUST	8"x4"			1	RACKS MD-1	4 50	80	MIN.	4			
G		E.H. PRICE	AS SHOW	WN	ALUMINUN FIXED 45	M LOUVERED	EXHAUST AIR I, 1/2" BLADE	REGIST SPACI	TER 635 NG 635	D OBD			MD-1	6 FRESH	AIR SUPPLY	12"x6"		•			210 ON	300	MIN.	4			ΝΤΟ
н		E.H. PRICE	AS SHOW	WN ALU	MINUM LO	OUVERED TRA	ANSFER/RETURN	N AIR SPACI	GRILLE 638	· _			MD-1	7 SANITAR	Y EXHAUST	8"x6"				RACKS MD-1	6 100	180	MIN.	4	scale: date:		03/02/18
			48" LENG	GTH	LINEA		ATED PLENUM	SER		50 -			MD-1	B FRESH	AIR SUPPLY	12"x6"		•		-	210 ON	300	MIN.	4	drawn:		B.C.
		L.N. FRICE	3-SL01			DRYWALL CE	ILING MOUNTED	)			_	SECOND	MD-1	9 SANITAR	Y EXHAUST	8"x6"				RACKS MD-1	8 100	180	MIN.	4	checked by:		R.M.
J		E.H. PRICE	48" LENG 1/2" SLOT	MDTH	LINE# C/W INS	AR SUPPLY A SULATED SLOP	NIK SLOT DIFFUS PED SHOULDER	SER PLENU	UM SDAI	50 –				U FRESH /	AIR SUPPLY	12"x6"		•		- AMPER POSITI	210 ON	300	MIN.	4	CS&P project n	umber:	17026
к	+	E.H. PRICE	AS SHOW	wn	ROUI	ND CONE SU	PPLY AIR DIFFL	JSER	RCD	A OBD	-			21   SANITAR		8"x6"			1	RACKS MD-2	100	180	MIN.	1	RMA project nu	mber:	RMA-17-05
`					/FD &1 TF			ст						Z FRESH /	AIK SUPPLY	6"x6"				- AMPER POSITI	100 ON	140	MIN.	4	drawing number		<u>∖/</u> _1Ջ
KI/ Y ···	. гкО	THUL JUTEDULE	L LUUITMENI	UN AFPRUN	LU ALIL	NITALE, CULUL	ARCHILE	<b>.</b>				1	MD-2	ເວ   SANITAR	TEXHAUST	8″x4″			1	RACKS MD-2	50	90	MIN.	J			

	DIFFU	SER, GRIL	LE AND REGISTER SCHED	ULE	
CI Sì		GR	RILLE SIZE OR NECK SIZE (MM)		
REF.	MANUFACTURER	SIZE	ТҮРЕ	MODEL	ACCESSORIES
A	E.H. PRICE	AS SHOWN	SQUARE PLAQUE SUPPLY AIR CEILING DIFFUSER (600x600 FACE)	SPD	OBD
В	E.H. PRICE	AS SHOWN	SQUARE PLAQUE SUPPLY AIR CEILING DIFFUSER (300x300 FACE)	SPD	OBD
с	E.H. PRICE	AS SHOWN	SQUARE PLAQUE SUPPLY AIR CEILING DIFFUSER (600x600 FACE) VAV HEATING & COOLING	VPD-HC	-
D	E.H. PRICE	AS SHOWN	ALUMINUM LOUVERED SUPPLY AIR REGISTER DOUBLE DEFLECTION - 3/4" BLADE SPACING	620D	OBD
E	E.H. PRICE	AS SHOWN	ALUMINUM EGG CRATE FACE EXHAUST AIR REGISTER 1/2"x1/2"x1/2" GRID CORE	80D	OBD
F	E.H. PRICE	AS SHOWN	ALUMINUM EGG CRATE FACE TRANSFER/RETURN AIR GRILLE 1/2"x1/2"x1/2" GRID CORE	80	Ι
G	E.H. PRICE	AS SHOWN	ALUMINUM LOUVERED EXHAUST AIR REGISTER FIXED 45° DEFLECTION, 1/2" BLADE SPACING	635D	OBD
н	E.H. PRICE	AS SHOWN	ALUMINUM LOUVERED TRANSFER/RETURN AIR GRILLE FIXED 45° DEFLECTION, 1/2" BLADE SPACING	635	-
I	E.H. PRICE	48" LENGTH 1/2" SLOT WDTH 3-SLOT	LINEAR SUPPLY AIR SLOT DIFFUSER C/W INSULATED PLENUM DRYWALL CEILING MOUNTED	SDBI50	_
J	E.H. PRICE	48" LENGTH 1/2" SLOT WDTH 2-SLOT	LINEAR SUPPLY AIR SLOT DIFFUSER C/W INSULATED SLOPED SHOULDER PLENUM DRYWALL CEILING MOUNTED	SDAI50	_
к	E.H. PRICE	AS SHOWN	ROUND CONE SUPPLY AIR DIFFUSER	RCDA	OBD

																Key to Detail Location	
	WINTE	R				POWER	ELEC.		MAX	FUSE	SI7F			20X		NO.	Detail Number Drawing Number
	CAPAC	ITY SE EFFIC	NSIBLE		ENT ICY OF	FOWLIN	IVI.	0.7.	OR BRI	EAKER Æ	JILL		WEIG	ЭНТ			
EMP. [*F)	(квти,	/H)	(%)	30PPL (%	5) (	(V/PH/HZ	()	nps)	(Arr	ps) (LENGTH	x width	I x Heigh	IT) (Ib	.)		If this sheet is not 33 1/8" x 23 3/8 - Read dwg, accordingly.	J" (841 x 594 mm) It is a reduced print
3 dB % RH	230.	0	76.5	74	.5	600/3/80	0 9.	.55	R ¹	5 92.33 ×	× 62.99	) x 62.9	99 185	50		Contractors must check and verify	/ all dimensions on the job and report
										re P N	evised Power: MCA: 3	to: : 208V/ 31A	/3PH/60	Hz		All prints and specifications are th returned at the completion of the w	e property of the Architect and must be vork.
										-N	Max Br	reaker	Size: 50	A	1	Drawings should not be scaled.	
	AU		RY D				HE					EIN	EIN				Povision/Issued
IONEN	1	10.	FLOW		DB	DB		DCITY	PRESS	FLOW PR	ROP	HEIGHT	WIDTH	SPACING		0 18-06-29 Issue	ed for 50% Contract Documents
			(CFM)	(мвн)	("F)	<b>(</b> †F)	(FT/	/MIN)	(IN.)	(GPM) (FT.	WG)	(IN.)	(IN.)	(FINS/IN.)		1 18-08-03 Issue	ed for 70% Contract Documents
CK	H <b>W</b> 58	S02F08	3000	146	-5.0	40.0	38	B9	0.10	31.5 4	4.2	28.5	40.0	2 8	]	2 18-09-11 Issue	id for Progress
6 PROP ON 120	YLENE ( D'F ENTE	RING FLU	ID TEMPE	RATURE.												4 18-10-03 Issue	ed for Permit
UR API	PROVED	AL IERNA IE.	•						<b>1</b>							5 19-04-05 Issue	ed for Tender Client Review
		HFAT	PI ATF		BL	JFFER		NK/	'HYD	RAULIC SE	EPAR		R SCH	EDULE		6 19-05-07 Issue	ed for Tender
	P.D.	EXCH'D			DESI	IGNATION	s	ERVICE	:	MANUFACTURER	MODE NO		CAPACITY	SIZE (DIA.xHT. IN.)			
<b>v</b>	(FT.)	(MBH)		/		T–1	HEA	ting w	ATER	LOCHINVAR	BVU12	20	120	32.0 x 59.5			
ENE	5.0	146.0	316L S.S.		NOTE	:S: ANK SHALL	BEC	/₩ 2"	THICK IN	ISULATION, PRE-F	PAINTED	JACKET.					
ENE	5.0	123.0	316L S.S.		3 1'	ø SUPPLY	/retur Valve,	RN FLA AND A	NGED CO	ONNECTIONS, TANK IC AIR VENT	< SENSOF	R WELL, 1	1"ø DRAIN	VALVE,			
					2. P	rovide sci	HEDULE	ED EQU	IPMENT	OR APPROVED AL	TERNATE.	•					
P	NUY	P S	CHE	DUL	E									7			
					M	IOTOR		MOTO	OR					-			
MOD	EL	(GPM	I) (FT.)		P			(V/PH/	/HZ)	REMARKS	>		777-	<del></del>			
NA3 65-	-150 F	111	40	-	29 WA 1301 W	TTS (MIN.) VATTS (MAX TTS (MIN.)	k.)	208/1,	/60	DUTY/STAND-BY C/W INTEGRATED	VFD PU	ION, EAC JMP STOF	H PUMP P/START	Revise rer P-2, P-3	marks for P-1, , and P-4 to	consultants	
NA3 65-	-150 F	111	40	-	29 WA 1301 W	VATTS (MIN.) VATTS (MAX	k.)	208/1,	/60					CAPABLE OPERAT	OF PARALLEL	architects	COOLEARTH ARCHITECTURE INC. 386 Pacific Ave. Toronto, ON, M6P 2R1
NA3 65-	-120 F	75	30	-	769 W	ATTS (MAX. VATTS (MIN.	.) .)	208/1,	/60	C/W INTEGRATED	VED, PU	JMP STOF BY B.A.S	P/START € 5.	MODE EAG	CH PUMP C/W		Phone: 416-868-9774
NA3 40-	-120 F	40	20	_	769 W	ATTS (MAX. TTS (MIN.)	.)	120/1	/60	C/W INTEGRATED	VFD, PU	JMP STOF	P/START	STOP/STAI	RT AND SPEED ED BY BAS VIA		CS&P ARCHITECTS INC. 2345 Yonge St., Suite 200 Toronto, ON, M4P 2E5
NA3 40-	-180 F	40	35	_	276 W/	ATTS (MAX. TTS (MIN.)	.)	208/1	/60	AND SPEED CONT	VFD, PU	BY B.A.S	S. P/START	PARAL CONT	LEL PUMP "ROLLER"		Phone: 416-482-5002
NA3 40-	-80 F	31.5	20	-	607 W/	ATTS (MAX. TTS (MIN.)	.)	120/1/	/60	AND SPEED CONT	VFD, PU	JMP STOP	S. P/START			structural engineer	STEPHENSON ENGINEERING 2550 Victoria Park Ave., Suite 602 Toronto. ON M2J 5A9
43–44 B	ßF	5	13	-	270 11	5 WATTS	•/	120/1,	/60	ALL BRONZE CON		ON, PUMF	». P .S.				Phone: 416-635-9970
NA3 32-	-60 F	25.6	6 10	-	8.5 WA	ATTS (MIN.) WATTS (MA	X.)	120/1,	/60	C/W INTEGRATED AND SPEED CONT	VFD, PU	JMP STOF BY B.A.S	p/start S.			mechanical & electrical engineer	R MANCINI AND ASSOCIATES 30 Martha St Suite 203 Pathan ONU 75 514
NA3 40-	-120 F	27.6	6 30	-	16 WA ⁻ 442 W	TTS (MIN.) ATTS (MAX.	.)	120/1,	/60	C/W INTEGRATED AND SPEED CONT	vfd, pu Trolled	JMP STOF BY B.A.S	P/START S.				Phone: 905-951-6292
t COMM	UNICAT		FACE MO	DULE (CIN		ATIBLE WIT	TH B.A	A.S.						—		landscape architect	PMA LANDSCAPE ARCHITECTS LTD. 359 Keele Street
1101							•										Foronto, UN, M6P 2K6 Phone: 416-239-9818
																civil engineer	MASONGSONG ASSOCIATES ENGINEERING LTD. 7800 Konpady Boad, S. 201
	DEI	MAND	000	NTRO	l VE	NTILA	A TIC	DN	ΜΟΤ	ORIZED	DAN	MPEF	R SCH	HEDULE	]		Markham, ON, L3R 2C7 Phone: 905-944-0162
FLC	DOR	DAMPER TAG	AIR SE	RFLOW RVICE	DUC SIZE	E DAM	IPER IATOR	C SEN	0² ISOR	REMARKS		H REGU	iru oper Ilar	ATION MODE RESILIENCY	-	N PROJECT	POFFSSIO
						NOIT	NG	INT	OUNT								RMA 17-05 52
						.ISO4-(	DULAT	TL MOL	DUCT M		AI	MIN. IRFLOW (CFM)	MAX. AIRFLOW (CFM)	DAMPER POSITION			R MARCHI T
						TWC	W	WA	R/A [		Ì						19/05/07 380, 19/05/07
	ļ	MD-1	FRESH A	IR SUPPL	Y 26"x1	0"				-			TO BE OPEN	DAMPER TO BE FULLY CLOSED	4		NCE OF ONT
RVCE		MD-2	GENERAL		T   16"x1 5T 8"√€	4″ 🔵			$\left  \right $	-		FULLY	OPEN TO BE	FULLY CLOSED DAMPER TO BE	-		
		MD-4	FRESH A	IR SUPPL	Y 24"x1	0"	•	-	•	-		FULLY 590	OPEN 1390	FULLY CLOSED	-	And As	'IANCINI ssociates Ltd.
		MD-5	GENERAL	EXHAUS	T 14"x1	0"	۲			DAMPER POSITI TRACKS MD-	10N 4	0	710	_	]	Geothermal 30 Mart	, / Energy Consultants tha St Suite 203, Bolton, Ontario L7E 5V1
		MD-6	FRESH A	IR SUPPL	Y 8"x8	3" 🔵		•				160	230	MIN.	4	Tel: (416) 236- Website: www.geotherm	2626, (905) 951-6292 Fax: (905) 951-0305 .ax.com E-mail rmancini@geothermax.com
	ŀ	MD-7	SANITAR	Y EXHAUS	ST 8"x4			-	$\left  \right $	TRACKS MD-	6	50	90	MIN.	-		
	ŀ	MD-0 MD-9	SANITAR	Y EXHAUS	T 8"x4	,     • ,*    •			$\left  \right $	DAMPER POSITI	10N	50	230 90	MIN.	-		
	ŀ	MD-10	FRESH A	IR SUPPL	Y 8"x6	5" 🔵		•		RACKS MD-	8	140	200	MIN.	-	MOUNT DENNIS CHI	LDCARE CENTRE
GRC	DUND	MD-11	SANITAR	y exhaus	ST 8"x4	<b>.</b> "				DAMPER POSITI TRACKS MD-1	10N 10	50	90	MIN.	]	1234 WESTON ROAD, TOP	RONTO, ON M6M 4P8
	ļ	MD-12	FRESH A	IR SUPPL	Y 8"x6	5 <b>"                                    </b>		•				140	200	MIN.	4		MECHANICAL
	ŀ	MD-13	SANITAR	Y EXHAUS	ST 8"x4	·"			$\left  \right $	TRACKS MD-1	12	50	80	MIN.	-	ĺ	SCHEDULES
	ŀ	MD-14	SANITAR	Y EXHAUS	T 8"x4	, <b>•</b>			$\left  \right $	DAMPER POSITI	10N	50	80	MIN.	-		
		MD-16	FRESH A	IR SUPPL	Y 12"x6	6"		•			.+	210	300	MIN.	1		
	ľ	MD-17	SANITAR	Y EXHAUS	ST 8"x6	5" 🔵				DAMPER POSITI TRACKS MD-1	10N 16	100	180	MIN.	]	scale:	N.T.S.
	ļ	MD-18	FRESH A	IR SUPPL	Y 12"x6	6"		•				210	300	MIN.	4	date: drawn:	03/02/18 B.C.
SEC		MD-19 MD-20	SANITAR	T EXHAUS	Y 12"-4	6" <b>•</b>		•	$\left  - \right $	TRACKS MD-1	18	100 210	180	MIN.	-	checked by:	R.M.
	ŀ	MD-21	SANITAR	Y EXHAUS	T 8"x6	5" <b>•</b>			$\left  \right $	DAMPER POSITI	10N	100	180	MIN.	-	CS&P project numb	er: 17026
	ŀ	MD-22	FRESH A	IR SUPPL	Y 6"x6	5"		•				100	140	MIN.		RMA project number	r: RMA-17-05
		MD-23	SANITAR	Y EXHAUS	ST 8"x4	."				DAMPER POSITI TRACKS MD-2	10N 22	50	90	MIN.			M-18

							FIXTURE SCHEDULE	
						ALTERN	ATES OF SPECIFIED FIXTURES MUST BE APPROVED BY CONSULTANTS	Г
TYPE	TYPE	LI WATTAGE	GHT SOURCI	E CRI	COLOUR TEMP (K)	VOLTAGE	DESCRIPTION	MANUFACTURER
A	LED	32	3170	90	2700	120	SURFACE MOUNTED FIXTURE. 1220 LONG, 200 WIDE, 50 DEEP.	PEERLESS, BRUNO # RM9L-S-4FT-MSL4-90CRI-27K-1050LMF-C210-CSA
В	LED	30	2500	90	2700	120	SURFACE MOUNTED CYLINDER, MATT WHITE HOUSING, WIDE DISTRIBUTION, SPECULAR REFLECTOR, DIMMABLE TO 10%	GOTHAM # EVO-CYL-27/25-6AR-WD-LS- 120-GZ10-FCM-CRI90-DWHG
с	LED	20	2000	90	2700	120	RECESSED IN DRYWALL POT LIGHT, 6" APERTURE	HALO# PD620-ED010-PDM6A-927-64V-C
C1	LED	20	2000	90	2700	120	SAME AS TYPE 'C' EXCEPT SUITABLE FOR INSTALLATION IN LAP CEILING	
D	LED	25	3000	90	3000	120	1220 LONG, SURFACE MOUNTED FIXTURE WITH SNAP ON FROSTED DIFFUSER, SYMMETRIC DISTRIBUTION, WHITE HOUSING	LITHONIA, # ZL1N-L48-SMR-3000-FST-120-30K-90CRI
E	LED	27	2441	90	3500	120	LITHONIA 'AVANTE' 1'x4' GRID TRIM, METAL DIFFUSER, MOLDED LIGHT TRAP & END PLATES.	LITHONIA, # AVL4—25L—MDR—GZ1
F	LED	40	1700 UP 2300 DN	90	2700	120	1220 LONG, WALL MOUNTED FIXTURE WITH B.I. MOTION SENSOR AND DAYLIGHT SENSOR, APPX 60% DOWNLIGHT AND 40% UP, WHITE DIFFUSER, MATT WHITE HOUSING.	NEO-RAY # S122-DIW-ULO-1-27-0048-1-D- 1-DD-1-NA-W-SVPD1-90
G	LED	19	2000	83	2700	120	SQUARE CYLINDER PENDANT, 28" LONG, SUSPENDED TO 3200 A.F.F.	EATON, SHAPER # 146-28-P1S-L3/827-UNV-MW
J	LED	20	1500	90	2700	120	RECESSED 150MM APERTURE SHOWER LIGHT POLYCARBONATE LENS	GOTHAM # EVO6SH-27/15-6GDFR-SMO-120-CRI90
к	LED	19	2500	90	3000	120	610 LONG, SURFACE MOUNTED FIXTURE WITH SNAP ON FROSTED DIFFUSER, SYMMETRIC DISTRIBUTION, WHITE HOUSING C/W BUILT-IN MOTION SENSOR	LITHONIA, # ZL1N-L24-SMR-2500-FST-120-30K-90CRI-LB0ZU
К1	LED	19	2500	90	3000	120	SAME AS TYPE 'K' WITHOUT BUILT-IN MOTION SENSOR	LITHONIA, # ZL1N-L24-SMR-2500-FST-120-30K-90CR
L	LED	19	3000	80	3000	120	610 LONG, SURFACE MOUNTED FIXTURE SUITABLE FOR WET LOCATION, MOUNTED ON STRUCTURAL MEMBERS FOR SOLAR PANELS. COORDINATE EXACT MOUNTING ON SITE.	LITHONIA, # DMW2-L24-3000-ACL-MD-120-30K-80
N	LED	26	2800	90	3000	120	610 LONG RECESSED FIXTURE SUITABLE FOR T-BAR GRID INSTALLATION. FLUSH LENS, WHITE HOUSING	FOCAL POINT, SEEM 4, FSM4L-FL-625LF-930K-1C-UNV-LD1-G1-WH
Р	LED	31	3100	90	3000	120	305X1220 RECESSED FIXTURE SUITABLE FOR DRYWALL INSTALLATION. ROUND PERFORATED SHIELDING, DIMMING DRIVER.	EATON, CORELIGHT, DX3-WD-31L-930-LD5-UNV-14
TLx	LED	4.4W/FT	340/FT	95	2700	120	LED TAPE LIGHT MOUNTED IN COVE. NUMBER INDICATES LENGTH OF TAPE (I.E. 'TL2800' = 2800MM LENGTH OF LED TAPE LIGHT) C/W WITH DRIVER AND FITTINGS AS REQUIRED.	DANALITE FLEXCONNECT # SLW412-X-27K-95CRI
SLx	LED	4.4W/FT	340/FT	95	2700	120	LED STRIP LIGHT MOUNTED IN UNDER COUNTERS. NUMBER INDICATES LENGTH OF LIGHT (I.E. 'SL2800' = 2800MM LENGTH OF LED LIGHT) C/W WITH DRIVER AND FITTINGS AS REQUIRED. LOW PROFILE SURFACE MOUNT WITH LENS	DANALITE FLEXCONNECT # SLW412-X-27K-95CRI-SM6
P4	LED	68	7600 UP 3200 DN	90	3000	120	1220 LONG (4'), SUSPENDED LINEAR FIXTURE WITH 60% UPLIGHT AND 40% DOWNLIGHT, 450 LONG CABLE, WHITE HOUSING, 0–10V DIMMING	PEERLESS # OPM4-LSL-4FT-MSL4-90CRI-30K-1900LMF- 800LMF-ZT-120-SCT-F2/18F-C041-CSA
P4D	LED	68	7600 UP 3200 DN	90	3000	120	SAME AS TYPE 'P4' EXCEPT WITH BUILT-IN. DAYLIGHT SENSOR	PEERLESS # OPM4-LSL-4FT-MSL4-90CRI-30K-1900LMF- 800LMF-ZT-120-SCT-ADC-F2/18F-CO41-CSA
P8	LED	132	15000UP 6400DN	90	3000	120	2440 LONG (8'), SUSPENDED LINEAR FIXTURE WITH 60% UPLIGHT AND 40% DOWNLIGHT, 450 LONG CABLE, WHITE HOUSING, 0-10V DIMMING	PEERLESS # OPM8-LSL-8FT-MSL8-90CRI-30K-1900LMF- 800LMF-ZT-120-SCT-F2/18F-CO41-CSA
P8D	LED	132	15000UP 6400DN	90	3000	120	SAME AS TYPE 'P8' EXCEPT WITH BUILT-IN DAYLIGHT SENSOR	PEERLESS # OPM8-LSL-8FT-MSL8-90CRI-30K-1900LMF- 800LMF-ZT-120-SCT-ADC-F2/18F-CO41-CSA
S1	LED	37	1900	70	4000	120	POLE MOUNTED FIXTURE WITH TYPE 4 MEDIUM DISTRIBUTION WITH BACK-LIGHT SHIELD, DIRECT ARM MOUNT, SILVER HOUSING, 20 LEDS, 525mA DRIVER MOUNTED ON 3050MM LONG, SQUARE STEEL POLE, SILVER COLOUR. FIXTURE TO BE DARK SKY COMPLIANT. REFER TO ARCHITECTURAL DRAWINGS FOR CONCRETE BASE DETAIL.	CREE # ARE-EDG-4MB-DA-E-ULWH-02-525-40K
S2	LED	15	700	95	2700	120	WALL MOUNTED FIXTURE. TYPE II LATERAL DISTRIBUTION, WHITE HOUSING. MOUNT APPROXIMATELY 3000 A.F.G.	EATON, EON # 303-W2-LEDB2-2700-UNV-T2-WT
S3							NOT USED	
S4	LED	15	1200	90	2700	120	SURFACE MOUNTED, 6" APERTURE DOWNLIGHT, WHITE TRIM	HALO# SMD6R-12-927-WH
S5	LED	11	1000	90	2700	120	RECESSED, 6" DOWNLIGHT, WHITE TRIM.	LITHONIA # REAL6 D6-MW-1000L-27K
EXIT LIGHTS	LED	2.5	-	-	_	120/12V	LUMACELL, BRUSHED STEEL HOUSING, FLAT, FULLY RECESSED TRIM (CEILING MOUNTED). CONNECTED TO 120V AC AND 12VDC BATTERY.	LUMACELL LDE SERIES

	LEGEND
	LED LIGHT FIXTURE
0	SURFACE MOUNTED LED POT LIGHT FIXTURE
<b>¢</b>	RECESSED LED POT LIGHT FIXTURE
Оч	WALL MOUNTED LIGHT FIXTURE
	UNDER CUPBOARD OR CEILING COVE LED STRIP LIGHTING.
X	EXIT SIGN - CEILING MTD. ARROW (IF USED) INDICATES DIRECTION OF EXIT (SHADED PORTION INDICATES DIRECTION(S) OF FACE)
HXX	WALL MOUNTED EXIT SIGN - CEILING MTD. ARROW (IF USED) INDICATES DIRECTION OF EXIT (SHADED PORTION INDICATES DIRECTION(S) OF FACE)
<b>\$</b> D 3 М	TOGGLE SWITCH. $3 = 3$ WAY, $D = DIMMER$ , $M = WITH MOTION SENSOR$
	CEILING MOUNTED MOTION SENSOR TO CONTROL ROOM LIGHTS
$\bigotimes$	WALL MOUNTED MOTION SENSOR TO CONTROL ROOM LIGHTS
ኇጜ	EMERGENCY REMOTE LAMPHEAD, DOUBLE OR SINGLE AS INDICATED
Ъ	CUBE TYPE EMERGENCY REMOTE LIGHT FIXTURE (SINGLE FIXTURE)
ЪД	CUBE TYPE EMERGENCY REMOTE LIGHT FIXTURE (DOUBLE FIXTURE)
В	EMERGENCY BATTERY WITH ADJACENT RECEPTACLE (NOT SHOWN)
Ð	15A DUPLEX RECEPTACLE
<b>₽</b> csc	15A DUPLEX RECEPTACLE C/W SLIDING CHILD SAFETY COVER SIMILAR TO 'KIDCO' S-205 UNIVERSAL OUTLET COVER.
-	20A (T-SLOT) DUPLEX RECEPTACLE
÷.	20A (T-SLOT) DUPLEX RECEPTACLE MOUNTED 150 ABOVE COUNTER OR 1M ABOVE FLOOR WHERE THERE IS NO COUNTER
Ŕ	DUPLEX RECEPTACLE MOUNTED 150 ABOVE COUNTER
#	FLOOR MOUNTED DUPLEX RECEPTACLE, RECESSED BACK BOX AND DUPLEX RECEPTACLE C/W HINGED COVER TO BE MOUNTED FLUSH WITH FINISH FLOOR
Ъ	DISCONNECT SWITCH
	TELEPHONE OUTLET C/W BACKBOX. WITH MIN 210 EMPTY CONDUIT C/W PULL CORD TO BASEMENT I.T. ROOM
•	TELEPHONE OUTLET C/W BACKBOX MOUNTED 1100 A.F.F. OR 300 ABOVE COUNTER. MIN 21Ø EMPTY CONDUIT C/W PULL CORD TO BASEMENT I.T. ROOM
Δ	COMPUTER/DATA OUTLET C/W BACKBOX. WITH MIN 210 EMPTY CONDUIT C/W PULL CORD TO BASEMENT I.T. ROOM
$\mathbf{O}$	MOTOR OUTLET
٥	DIRECT CONNECTION OUTLET. AS NOTED ON DRAWING
۰	PUSHBUTTON
WP	WEATHERPROOF
GFI	GROUND FAULT INTERRUPTER
Ø	PHOTOCELL
\$	OUTLET FOR STACKED WASHER/DRYER. 30A, 4 PLUG RECEPCTACLE (14-30R)
	FIRE ALARM PULL STATION C/W LEXAN SHIELD
X	FIRE ALARM SPEAKER
S S	FIRE ALARM STROBE/SPEAKER COMBINATION
8	SMOKE DETECTOR
0	THERMAL DETECTOR, FIXED TYPE, 135 F (57 C)
$\otimes$	DUCT MOUNTED SMOKE DETECTOR

FOR ALL SECURITY DEVICES PROVIDE BACKBOX, MINIMUM 21# EMPTY CONDUIT         COMPLETE WITH PULL CORD TO BASEMENT I.T. ROOM. SECURITY EQUIPMENT IS         SUPPLIED AND INSTALLED UNDER CASH ALLOWANCE. PROVIDE CONDUIT AND         BACKBOXES ONLY. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS AND         VOLUME 3 OF THE SPECIFICATIONS FOR FURTHER SECURITY SYSTEM INFORMATION.         IDC       SECURITY SYSTEM DOOR CONTACT. REFER TO SECURITY SYSTEM         SPECIFICATIONS FOR DETAILS         ICR       SECURITY SYSTEM CARD READER. REFER TO SECURITY SYSTEM         SPECIFICATIONS FOR DETAILS         IDS       SECURITY SYSTEM DOOR STRIKE. REFER TO SECURITY SYSTEM         SPECIFICATIONS FOR DETAILS         IDS       SECURITY SYSTEM DOOR STRIKE. REFER TO SECURITY SYSTEM         SPECIFICATIONS FOR DETAILS         IDS       SECURITY SYSTEM DOOR STRIKE. REFER TO SECURITY SYSTEM         SPECIFICATIONS FOR DETAILS         IDS       SECURITY SYSTEM GLASS BREAK SENSOR. REFER TO SECURITY SYSTEM         SECURITY SYSTEM GLASS BREAK SENSOR. REFER TO SECURITY SYSTEM         SPECIFICATIONS FOR DETAILS         IDES       SECURITY SYSTEM CAMERA WALL MOUNTED         IMP       SECURITY SYSTEM CAMERA MOUNTED IN SOFFIT         IMP       SECURITY SYSTEM CAMERA MOUNTED IN SOFFIT         IMPS       VIDEO DOOR ACCESS SYSTEM         IECB       RECESED EM		SECONTI DEVICES ELGEND
DC       SECURITY SYSTEM DOOR CONTACT. REFER TO SECURITY SYSTEM         SPECIFICATIONS FOR DETAILS       SECURITY SYSTEM CARD READER. REFER TO SECURITY SYSTEM         DS       SECURITY SYSTEM DOOR STRIKE. REFER TO SECURITY SYSTEM         DS       SECURITY SYSTEM DOOR STRIKE. REFER TO SECURITY SYSTEM         DS       SECURITY SYSTEM DOOR STRIKE. REFER TO SECURITY SYSTEM         DS       SECURITY SYSTEM DOOR AT MAIN ENTRANCE). REFER TO SECURITY SYSTEM SPECIFICATIONS FOR DETAILS         DRB       DOOR RELEASE BUTTON (OPENS DOOR AT MAIN ENTRANCE). REFER TO SECURITY SYSTEM SPECIFICATIONS FOR DETAILS         GBS       SECURITY SYSTEM GLASS BREAK SENSOR. REFER TO SECURITY SYSTEM SPECIFICATIONS FOR DETAILS         KP       SECURITY SYSTEM KEYPAD. REFER TO SECURITY SYSTEM SPECIFICATIONS FOR DETAILS         KP       SECURITY SYSTEM CAMERA WALL MOUNTED         SECURITY SYSTEM CAMERA MOUNTED IN SOFFIT       VIDEO DOOR ACCESS SYSTEM         ECB       RECESED EMERGENCY CALL BOX (LOCATED IN STAIR REFUGE AREA)	FOR AL COMPLE SUPPLIE BACKBO VOLUME	L SECURITY DEVICES PROVIDE BACKBOX, MINIMUM 210 EMPTY CONDUIT TE WITH PULL CORD TO BASEMENT I.T. ROOM. SECURITY EQUIPMENT IS ED AND INSTALLED UNDER CASH ALLOWANCE. PROVIDE CONDUIT AND DXES ONLY. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS AND E 3 OF THE SPECIFICATIONS FOR FURTHER SECURITY SYSTEM INFORMATION.
Image: CR       SECURITY SYSTEM CARD READER. REFER TO SECURITY SYSTEM         Image: Construction of the constructing of the constructing of the construction of the construction of	DC	SECURITY SYSTEM DOOR CONTACT. REFER TO SECURITY SYSTEM SPECIFICATIONS FOR DETAILS
DS       SECURITY SYSTEM DOOR STRIKE. REFER TO SECURITY SYSTEM         DRB       DOOR RELEASE BUTTON (OPENS DOOR AT MAIN ENTRANCE). REFER TO         SECURITY SYSTEM SPECIFICATIONS FOR DETAILS         GBS       SECURITY SYSTEM GLASS BREAK SENSOR. REFER TO SECURITY SYSTEM         SPECIFICATIONS FOR DETAILS         KP       SECURITY SYSTEM KEYPAD. REFER TO SECURITY SYSTEM SPECIFICATIONS         FOR DETAILS         SECURITY SYSTEM CAMERA WALL MOUNTED         SECURITY SYSTEM CAMERA MOUNTED IN SOFFIT         VDS       VIDEO DOOR ACCESS SYSTEM         ECE       RECESED EMERGENCY CALL BOX (LOCATED IN STAIR REFUGE AREA)	CR	SECURITY SYSTEM CARD READER. REFER TO SECURITY SYSTEM SPECIFICATIONS FOR DETAILS
DRB       DOOR RELEASE BUTTON (OPENS DOOR AT MAIN ENTRANCE). REFER TO         SECURITY SYSTEM SPECIFICATIONS FOR DETAILS         GBS       SECURITY SYSTEM GLASS BREAK SENSOR. REFER TO SECURITY SYSTEM         SPECIFICATIONS FOR DETAILS         KP       SECURITY SYSTEM KEYPAD. REFER TO SECURITY SYSTEM SPECIFICATIONS         FOR DETAILS         SECURITY SYSTEM CAMERA WALL MOUNTED         SECURITY SYSTEM CAMERA MOUNTED IN SOFFIT         VDS       VIDEO DOOR ACCESS SYSTEM         ECB       RECESED EMERGENCY CALL BOX (LOCATED IN STAIR REFUGE AREA)	DS	SECURITY SYSTEM DOOR STRIKE. REFER TO SECURITY SYSTEM SPECIFICATIONS FOR DETAILS
GBS       SECURITY SYSTEM GLASS BREAK SENSOR. REFER TO SECURITY SYSTEM         KP       SECURITY SYSTEM KEYPAD. REFER TO SECURITY SYSTEM SPECIFICATIONS         FOR DETAILS       SECURITY SYSTEM CAMERA WALL MOUNTED         SECURITY SYSTEM CAMERA MOUNTED IN SOFFIT       SECURITY SYSTEM CAMERA MOUNTED IN SOFFIT         VDS       VIDEO DOOR ACCESS SYSTEM         ECB       RECESED EMERGENCY CALL BOX (LOCATED IN STAIR REFUGE AREA)	DRB	DOOR RELEASE BUTTON (OPENS DOOR AT MAIN ENTRANCE). REFER TO SECURITY SYSTEM SPECIFICATIONS FOR DETAILS
Image: Security system keypad. Refer to security system specifications         Image: Security system camera wall mounted         Image: Security system camera wall mounted in soffit         Image: Security system camera mounted in soffit         Image: VDS         VIDEO DOOR ACCESS SYSTEM         Image: Recesed Emergency call box (located in stair refuge area)	GBS	SECURITY SYSTEM GLASS BREAK SENSOR. REFER TO SECURITY SYSTEM SPECIFICATIONS FOR DETAILS
SECURITY SYSTEM CAMERA WALL MOUNTED         SECURITY SYSTEM CAMERA MOUNTED IN SOFFIT         VDS       VIDEO DOOR ACCESS SYSTEM         ECB       RECESED EMERGENCY CALL BOX (LOCATED IN STAIR REFUGE AREA)	KP	SECURITY SYSTEM KEYPAD. REFER TO SECURITY SYSTEM SPECIFICATIONS FOR DETAILS
Image: Security system camera mounted in soffit		SECURITY SYSTEM CAMERA WALL MOUNTED
VDS       VIDEO DOOR ACCESS SYSTEM         ECB       RECESED EMERGENCY CALL BOX (LOCATED IN STAIR REFUGE AREA)	R	SECURITY SYSTEM CAMERA MOUNTED IN SOFFIT
ECB RECESED EMERGENCY CALL BOX (LOCATED IN STAIR REFUGE AREA)	VDS	VIDEO DOOR ACCESS SYSTEM
	ECB	RECESED EMERGENCY CALL BOX (LOCATED IN STAIR REFUGE AREA)

DWG # E-2 E-3 E-4 E-5 E-6 E-7 E-8 E-9 E-10 E-11 E-12

E	ELECTRICAL DRAWING LIST
DWG #	NAME
E-1	ELECTRICAL - DETAILS AND SCHEDULES
E-2	ELECTRICAL SITE PLAN
E-3	LIGHTING LAYOUT - BASEMENT FLOOR PLAN
E-4	LIGHTING LAYOUT - SECOND FLOOR PLAN
E-5	LIGHTING LAYOUT - THIRD FLOOR PLAN
E-6	LIGHTING LAYOUT - ROOF PLAN
E-7	POWER LAYOUT - BASEMENT FLOOR PLAN
E-8	POWER LAYOUT - SECOND FLOOR PLAN
E-9	POWER LAYOUT - THIRD FLOOR PLAN
E—10	POWER LAYOUT - ROOF FLOOR PLAN
E—11	ELECTRICAL RISER DIAGRAM AND DETAILS
E—12	FIRE ALARM ZONES AND PANEL SCHEDULES

Key to Detail Location

NO.

NO.

Detail Number Drawing Number

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6	18-10-03	ISSUED FOR PERMIT
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CS&P ARCHITECTS INC. 2345 Yonge St., Suite 200 Toronto, ON. M4P 2E5 Phone: 416-482-5002

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R MANCINI AND ASSOCIATES

PMA LANDSCAPE ARCHITECTS LTD.

30 Martha St Suite 203 Bolton, ON L7E 5V1 Phone: 905-951-6292

2550 Victoria Park Ave., Suite 602 Toronto, ON M2J 5A9 Phone: 416-635-9970

structural engineer

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landscape architect

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MASONGSONG ASSOCIATES ENGINEERING LTD. 7800 Kennedy Road, S. 201 Markham, ON, L3R 2C7 Phone: 905-944-0162

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![](_page_48_Picture_22.jpeg)

R.Mancini and Associates Ltd. Geothermal / Energy Consultants 30 Martha St., Suite 203, Bolton, Ontario L7E 5V1 Tel: (416) 236-2626, (905) 951-6292 Fax: (905) 951-0305 Website: www.geothermax.com E-mail rmancini@geothermax.com

MOUNT DENNIS CHILDCARE CENTRE 1234 WESTON ROAD, TORONTO, ON M6M 4P8

# ELECTRICAL DETAILS AND SCHEDULES

scale: date: drawn: checked by: CS&P project number: RMA project number: drawing number:

1:100 03/02/18 P.R. R.M. 17026 RMA-17-05

E-1 Revision:

_____

![](_page_49_Figure_0.jpeg)

Key to Detail Location

NO.

NO.

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CS&P ARCHITECTS INC. 2345 Yonge St., Suite 200 Toronto, ON. M4P 2E5 Phone: 416-482-5002

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R MANCINI AND ASSOCIATES 30 Martha St Suite 203 Bolton, ON L7E 5V1 Phone: 905-951-6292

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![](_page_49_Picture_17.jpeg)

![](_page_49_Picture_18.jpeg)

# R.Mancini and Associates Ltd. Geothermal / Energy Consultants

30 Martha St. Suite 203, Bolton, Ontario L7E 5V1 Tel: (416) 236-2626, (905) 951-6292 Fax: (905) 951-0305 Website: www.geothermax.com E-mail rmancini@geothermax.com

MOUNT DENNIS CHILDCARE CENTRE 1234 WESTON ROAD, TORONTO, ON M6M 4P8

# SITE PLAN ELECTRICAL

scale: date: drawn: checked by: CS&P project number: RMA project number: drawing number:

1:100 03/02/18 P.R. R.M. 17026 RMA-17-05

**E-**2 Revision:

![](_page_50_Figure_0.jpeg)

Key to Detail Location

NO.

NO. /

Detail Number Drawing Number

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R MANCINI AND ASSOCIATES 30 Martha St Suite 203 Bolton, ON L7E 5V1 Phone: 905-951-6292

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![](_page_50_Picture_17.jpeg)

![](_page_50_Picture_18.jpeg)

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MOUNT DENNIS CHILDCARE CENTRE 1234 WESTON ROAD, TORONTO, ON M6M 4P8

# LIGHTING LAYOUT BASEMENT FLOOR PLAN

scale: date: drawn: checked by: CS&P project number: RMA project number: drawing number:

1:75 03/02/18 P.R. R.M. 17026 RMBA-17-05 **E-**3

AND FOR LOCATIONS OF SURFACE MOUNTED WIREMOLD FOR LIGHT FIXTURES. CONDUIT SHALL

![](_page_51_Figure_0.jpeg)

Key to Detail Location

NO.

NO. /

Detail Number Drawing Number

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STEPHENSON ENGINEERING 2550 Victoria Park Ave., Suite 602 Toronto, ON M2J 5A9 Phone: 416-635-9970

R MANCINI AND ASSOCIATES 30 Martha St Suite 203 Bolton, ON L7E 5V1 Phone: 905-951-6292

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![](_page_51_Picture_18.jpeg)

![](_page_51_Picture_19.jpeg)

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MOUNT DENNIS CHILDCARE CENTRE 1234 WESTON ROAD, TORONTO, ON M6M 4P8

# LIGHTING LAYOUT **GROUND FLOOR PLAN**

scale: date: drawn: checked by: CS&P project number: RMA project number: drawing number:

1:75 03/02/18 P.R. R.M. 17026 RMBA-17-05 E-4

Revision:

NOTES:

EXPOSED WOOD CEILING IN THIS AREA. FEEDERS SHALL NOT BE RUN ON THE EXPOSED WOOD AREAS. REFER TO ARCHITECTURAL CEILING 1 PLANS FOR EXACT LAYOUT AND DIMENSIONS AND FOR LOCATIONS OF SURFACE MOUNTED WIREMOLD FOR LIGHT FIXTURES. CONDUIT SHALL NOT PENETRATE WOOD BEAMS. SURFACE MOUNTED CONDUIT SHALL BE WIREMOLD V500

REFER TO VOLUME 1 OF THE ARCHITECTURAL SPECIFICATIONS, SECTION 01 31 FOR INTERFERENCE AND COORDINATION DRAWING

![](_page_52_Figure_0.jpeg)

EXPOSED WOOD CEILING IN THIS AREA. FEEDERS SHALL NOT BE RUN ON THE EXPOSED WOOD AND FOR LOCATIONS OF SURFACE MOUNTED WIREMOLD FOR LIGHT FIXTURES. CONDUIT SHALL MOUNTED CONDUIT SHALL BE WIREMOLD V500

![](_page_52_Picture_4.jpeg)

NO.

NO. /

Detail Number Drawing Number

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R MANCINI AND ASSOCIATES 30 Martha St Suite 203 Bolton, ON L7E 5V1 Phone: 905-951-6292

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![](_page_52_Picture_18.jpeg)

![](_page_52_Picture_19.jpeg)

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MOUNT DENNIS CHILDCARE CENTRE 1234 WESTON ROAD, TORONTO, ON M6M 4P8

# LIGHTING LAYOUT SECOND FLOOR PLAN

scale: date: drawn: checked by: CS&P project number: RMA project number: drawing number:

1:75 03/02/18 P.R. R.M. 17026 RMBA-17-05 E-5

![](_page_53_Figure_0.jpeg)

Key to Detail Location

NO.

<u>NO.</u>

Detail Number Drawing Number

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4	2018 09 11	COORDINATION
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6	18-10-03	ISSUED FOR PERMIT
7	19-04-05	ISSUED FOR TENDER CLIENT REVIEW
8	19-05-07	ISSUED FOR TENDER

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architects

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mechanical &

electrical engineer

landscape architect

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PMA LANDSCAPE ARCHITECTS LTD. 359 Keele Street Toronto, ON, M6P 2K6 Phone: 416-239-9818

MASONGSONG ASSOCIATES ENGINEERING LTD. 7800 Kennedy Road, S. 201 Markham, ON, L3R 2C7 Phone: 905-944-0162

![](_page_53_Picture_17.jpeg)

![](_page_53_Picture_18.jpeg)

30 Martha St., Suite 203, Bolton, Ontario L7E 5V1 Tel: (416) 236-2626, (905) 951-6292 Fax: (905) 951-0305 Website: www.geothermax.com E-mail rmancini@geothermax.com

MOUNT DENNIS CHILDCARE CENTRE 1234 WESTON ROAD, TORONTO, ON M6M 4P8

# LIGHTING LAYOUT ROOF PLAN

scale: date: drawn: checked by: CS&P project number: RMA project number: drawing number: 1:75 03/02/18 P.R. R.M. 17026 RMBA-17-05

E-6 Revision:

![](_page_54_Figure_0.jpeg)

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![](_page_54_Picture_17.jpeg)

![](_page_54_Picture_18.jpeg)

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MOUNT DENNIS CHILDCARE CENTRE 1234 WESTON ROAD, TORONTO, ON M6M 4P8

# POWER LAYOUT **BASEMENT FLOOR PLAN**

scale: date: drawn: checked by: CS&P project number: RMA project number: drawing number:

1:75 03/02/18 P.R. R.M. 17026 RMA-17-05 E-7

Revision:

DRAWING NOTES

EXPOSED WOOD CEILING IN THIS AREA. FEEDERS SHALL NOT BE RUN ON THE EXPOSED WOOD AREAS. REFER TO ARCHITECTURAL CEILING PLANS FOR EXACT LAYOUT AND DIMENSIONS AND FOR LOCATIONS OF SURFACE MOUNTED WIREMOLD FOR LIGHT FIXTURES. CONDUITS SHALL NOT PENETRATE WOOD BEAMS. 2 OVEN OUTLET

A MICROWAVE OVEN. MOUNT RECEPTACLE IN CUPBOARD ABOVE

5 DISHWASHER OUTLET

6 GFI RECEPTACLE FOR WARMING TRAY. MOUNT BELOW COUNTER.

GFI RECEPTACLE FOR HANDS-FREE SINK. MOUNT APPX. 600 A.F.F. (BELOW SINK)

8 OUTLET FOR MOTORIZED DOOR. PROVIDE EMPTY CONDUIT AND BACKBOXES FOR PUSHBUTTONS.

REFER TO ARCHITECTURAL INTERIOR ELEVATIONS FOR THE MOUNTING HEIGHTS OF WALL MOUNTED

REFER TO VOLUME 1 OF THE ARCHITECTURAL SPECIFICATIONS, SECTION 01 31 FOR INTERFERENCE AND COORDINATION DRAWING

![](_page_54_Figure_34.jpeg)

![](_page_54_Figure_35.jpeg)

![](_page_54_Figure_36.jpeg)

![](_page_54_Figure_37.jpeg)

![](_page_54_Figure_38.jpeg)

![](_page_55_Figure_0.jpeg)

### DRAWING NOTES

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(4) MICROWAVE OVEN. MOUNT RECEPTACLE IN CUPBOARD ABOVE

5 POWER OUTLET FOR TYPE S-5 SINK. PROVIDE 120V/6V TRANSFORMER IN CEILING SPACE WITH LOW-VOLTAGE FEED DOWN TO SINK

# REFER TO VOLUME 1 OF THE ARCHITECTURAL

Key to Detail Location

/ NO. `

NO. /

Detail Number Drawing Number

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![](_page_55_Picture_26.jpeg)

![](_page_55_Picture_27.jpeg)

30 Martha St., Suite 203, Bolton, Ontario L7E 5V1 Tel: (416) 236-2626, (905) 951-6292 Fax: (905) 951-0305 Website: www.geothermax.com E-mail rmancini@geothermax.com

MOUNT DENNIS CHILDCARE CENTRE 1234 WESTON ROAD, TORONTO, ON M6M 4P8

# POWER LAYOUT **GROUND FLOOR PLAN**

scale: date: drawn: checked by: CS&P project number: RMA project number: drawing number:

1:75 03/02/18 P.R. R.M. 17026 RMA-17-05 E-8

![](_page_56_Figure_0.jpeg)

DRAWING NOTES EXPOSED WOOD CEILING IN THIS AREA. FEEDERS SHALL NOT BE RUN ON THE EXPOSED WOOD AREAS. REFER TO ARCHITECTURAL CEILING PLANS FOR EXACT LAYOUT AND DIMENSIONS AND FOR LOCATIONS OF SURFACE MOUNTED WREMOLD FOR LIGHT FIXTURES. CONDUITS SHALL NOT PENETRATE WOOD BEAMS.

2 OVEN OUTLET

3 EXHAUST HOOD

A MICROWAVE OVEN. MOUNT RECEPTACLE IN CUPBOARD ABOVE

5 DISHWASHER OUTLET

6 RECEPTACLES MOUNTED ON VERTICAL FACE OF ISLAND

POWER OUTLET FOR TYPE S-5 SINK. PROVIDE 120V/6V TRANSFORMER IN CEILING SPACE WITH LOW-VOLTAGE FEED DOWN TO SINK

REFER TO ARCHITECTURAL INTERIOR ELEVATIONS FOR THE MOUNTING HEIGHTS OF WALL MOUNTED

INTERFERENCE AND COORDINATION DRAWING

Key to Detail Location

NO.

NO.

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![](_page_56_Picture_33.jpeg)

![](_page_56_Picture_34.jpeg)

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MOUNT DENNIS CHILDCARE CENTRE 1234 WESTON ROAD, TORONTO, ON M6M 4P8

# POWER LAYOUT SECOND FLOOR PLAN

scale: date: drawn: checked by: CS&P project number: RMA project number: drawing number:

1:75 03/02/18 P.R. R.M. 17026 RMA-17-05 E-9

![](_page_57_Figure_0.jpeg)

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![](_page_57_Picture_16.jpeg)

![](_page_57_Picture_17.jpeg)

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MOUNT DENNIS CHILDCARE CENTRE 1234 WESTON ROAD, TORONTO, ON M6M 4P8

# POWER LAYOUT ROOF PLAN

scale: date: drawn: checked by: CS&P project number: RMA project number: drawing number: 1:75 03/02/18 P.R. R.M. 17026 RMA-17-05 **E-10** 

74.0 KW	FOW AND FOR OLASSROOM AREAS (SOOND Y FO)	(0500)	0.004	(1)(-))
11.5 KW	10W/M2 FOR REMAINDER (1145M2 X 10W)	(OESC:	8-204	(1)(a))
64.0 KW	MECHANICAL EQUIPMENT	(OESC:	8-204	(1)(c))
6.0 KW	OVEN	OESC:	8-204	(1)(d))
10.0 KW	ELEVATOR	(OESC:	8-204	(1)(d))
125.5 KW	TOTAL CONNECTED LOAD			
	DEMAND FACTOR (OESC 8-204(2)(b)) AVERAGE LOAD PER SQUARE METER: $\frac{125.5KW}{1825 M2} = 69 W/M2$	(OESC:	8–204	(2)(b))
46.5 KW 32.0 KW	900M2 X 69W X 75% 925M2 X 69W X 50%	(OESC: (OESC:	8–204 8–204	(2)(b)(ii)(A) (2)(b)(ii)(B)
78.5 KW	TOTAL DEMAND LOAD			

![](_page_58_Figure_1.jpeg)

![](_page_58_Figure_2.jpeg)

200A/200A,

347/600V 3ø, 4W MAIN DISC. SW.

FUSE RATED AT 100%

METER BASE, SUITABLE

FOR TORONTO HYDRO

4#3/0-78øC.

(2) _____

NET METERING

BUILDING SECTION AT ELECTRICAL ROOM SHOWING BURIED CONNECTION TO HYDRO POLE N.T.S.

OUTSIDE

![](_page_58_Figure_6.jpeg)

![](_page_58_Figure_7.jpeg)

200A-347/600V, 30, 4W RISER DIAGRAM

BATTERY CONNECTION CONFIGURATION 1 ALLOW FOR VARIATION IN CONNECTION METHOD TO MEET MANUFACTURER'S

NEMA 1 INCLOSURE MOUNTED ABOVE ELECTRICAL PANEL FOR RELAYS THAT ARE CONTROLLED BY THE BUILDING MANAGEMENT SYSTEM. NUMBER IN CIRCLE INDICATES NUMBER OF RELAYS REQUIRED. REFER TO PANEL SCHEDULES FOR THE CIRCUITS BEING CONTROLLED. RELAYS SHALL BE CGE No. RR9 - 30A PROVIDE 27¢C TO BUILDING MANAGEMENT SYSTEM FROM EACH RELAY ENCLOSURE WITH 2 # 18 FOR

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![](_page_58_Picture_30.jpeg)

![](_page_58_Picture_31.jpeg)

# R.Mancini and Associates Ltd. Geothermal / Energy Consultants

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MOUNT DENNIS CHILDCARE CENTRE 1234 WESTON ROAD, TORONTO, ON M6M 4P8

# DETAILS, RISER DIAGRAM AND SINGLE LINE ELECTRICAL

scale: date: drawn: checked by: CS&P project number: RMA project number: drawing number:

N.T.S. 03/02/18 P.R. R.M. 17026 RMA-17-05

E-11 Revision:

PANEL DP6B						■ 347/600V/3 PH/4 WIRE MAINS □ SEPARATE GROUND BAR FOR I.G. □ BECESSED ■ SUBFACE MOUNTED
LOCATION: BASEMENT MAIN ELECTRICAL	ROOM	1				■ 200A MAINS
DESCRIPTION	BKR	ССТ		ССТ	BKR	DESCRIPTION
	1	1	A	2	1	
WHP-1, WHP-2	20A	3	в	4	20A GFI	DWH-3
		5	С	6		
	1	7	A	8	1	
WHP-3, WHP-4	20A	9	в	10	30A	PANEL 'SB' (STANDBY POWER)
		11	С	12		
		13	A	14	1	
WHP-5	15A	15	в	16	80A	PANEL 'DP2B'
		17	С	18		
SPARE	15A	19	A	20	15A	SPARE
SPARE	15A	21	в	22	15A	SPARE
SPARE	15A	23	С	24	15A	SPARE
SPARE	15A	25	A	26	15A	SPARE
SPARE	15A	27	в	28	15A	SPARE
SPARE	15A	29	С	30	15A	SPARE
		-				

PANEL M (mechanical equipment) location: basement mechanical roo	ОМ					<ul> <li>■ 120/208V/3 PH/4 WIRE MAINS</li> <li>□ SEPARATE GROUND BAR FOR I.G.</li> <li>□ RECESSED ■ SURFACE MOUNTED</li> <li>■ 200A MAINS</li> </ul>			
DESCRIPTION	BKR	ССТ		ССТ	BKR	DESCRIPTION			
	45 4	1	A	2	1				
	454	3	в	4	15A	HP-4			
		5	С	6					
HP-2, HP-3	204	7	A	8	1				
110 7		9	в	10	15A	HP-5			
HP-7	20A	11	С	12					
		13	A	14	Í				
HP-8	20A	15	в	16	15A	HP-6			
110 44		17	С	18					
HP-11	20A	19	A	20	1				
	4.5.1	21	в	22	20A				
HP-9	15A	23	С	24	1				
		25	A	26	120A 1	HP-13			
HP-10	30A	27	в	28					
SPARE	15A	29	с	30	20A	HP-14			
SPARE	15A	31	A	32	Í				
	1	33	в	34	15A	HP-15			
SPRINKLER SYST. AIR COMPRESSOR	15A	35	с	36	Í				
		37	A	38	15A	P-6			
P-1, P-2	20A	39	в	40	15A	P-8			
	15 4	41	С	42	15A	FORCE FLOW HEATERS			
P=3, P=4		43	A	44	15A	ELEVATOR PIT SUMP PUMP			
P-5, P-7	15A	45	в	46	15A	SANITARY SUMP PUMP			
P-9, P-10	15A	47	С	48	15A	WEEPING TILE SUMP PUMP			
	1	49	A	50	15A	SPARE			
ELEVATOR	60A	51	в	52	15A	SPARE			
		53	С	54	15A	SPARE			

PANEL 1A	<ul> <li>■ 120/208V/3 PH/4 WIRE MAINS</li> <li>□ SEPARATE GROUND BAR FOR I.G.</li> </ul>					
LOCATION: GROUND FLOOR STROLLER ST	□ RECESSED					
DESCRIPTION	BKR	ССТ		ССТ	BKR	DESCRIPTION
RECEPTACLES - CORRIDOR	15A	1	A	2	15A	RECEPTACLES - TODDLER 3
RECEPTACLES - LOBBY/CUBBIES	15A	3	в	4	15A	RECEPTACLES - TODDLER 2
AUTOMATIC DOOR OPERATORS	15A	5	С	6	15A	RECEPTACLES - TODDLER 1
AUTOMATIC DOOR OPERATORS	15A	7	A	8	15A	RECEPTACLES - INFANT 2
RECEPTACLES - OFFICE	15A	9	в	10	15A	RECEPTACLES - INFANT 1
PRINTER	15A	11	С	12	15A	MICROWAVE
AUTOMATIC DOOR OPERATORS	15A	13	A	14	15A	MICROWAVE
RECEPTACLE – TV	15A	15	в	16	15A	SPARE
SPARE	15A	17	С	18	15A	SPARE
SPARE	15A	19	A	20	15A	SPARE
SPARE	15A	21	в	22	15A	SPARE
SPARE	15A	23	С	24	15A	SPARE
		I		1	II	

RECEPTACLE - IV	15A	15	В	16	ISA	SPARE
SPARE	15A	17	С	18	15A	SPARE
SPARE	15A	19	A	20	15A	SPARE
SPARE	15A	21	в	22	15A	SPARE
SPARE	15A	23	С	24	15A	SPARE
PANEL SB1 (STANDBY POWER) LOCATION: MAIN FLOOR STROLLER S	TORAGE					<ul> <li>■ 120/208V/3 PH/4 WIRE MAINS</li> <li>□ SEPARATE GROUND BAR FOR I.G.</li> <li>■ RECESSED ■ SURFACE MOUNTED</li> <li>■ 200A MAINS</li> </ul>
DESCRIPTION	BKR	сст		сст	BKR	DESCRIPTION
BATTERY/EXIT LIGHTS	15A	1	A	2	15A	LIGHTING - TODDLER 3
LIGHTING - CORRIDOR	15A	3	в	4	15A	LIGHTING - TODDLER 2
LIGHTING - RESOURCE AREA	15A	5	С	6	15A	LIGHTING - TODDLER 1
LIGHTING - CORRIDOR/STORAGE	15A	7	Α	8	15A	LIGHTING – INFANT 2
LIGHTING - LOBBY/VESTIBULE	15A	9	в	10	15A	LIGHTING - INFANT 1
LIGHTING - OFFICE/STAIRS	15A	11	С	12	15A	LIGHTING – WASHR'MS/STORAGE
LIGHTING – STAIRS	15A	13	A	14	15A	RECEPTACLE – 2ND FLOOR FRIDGE
RECEPTACLE-1ST FLOOR FRIDGE	15A	15	в	16	15A	RECEPTACLE - 2ND FLOOR FRIDGE
RECEPTACLE-1ST FLOOR FRIDGE	15A	17	С	18	15A	RECEPTACLE - 2ND FLOOR FRIDGE
RECEPTACLE-1ST FLOOR FRIDGE	15A	19	A	20	15A	SPARE
NIGHT LIGHT	15A	21	в	22	15A	SPARE
SPARE	15A	23	С	24	15A	SPARE
SPARE	15A	25	A	26	15A	SPARE
SPARE	15A	27	В	28	15A	SPARE
SPARE	15A	29	с	30	15A	SPARE

 $\star$  = circuit controlled by building management system (BMS)

10150

4 WIRE MAINS ID BAR FOR I.G. RFACE MOUNTED	

PANEL DP2B LOCATION: BASEMENT MAIN ELECTRICAL I	ROOM					<ul> <li>■ 120/208V/3 PH/4 WIRE MAINS</li> <li>□ SEPARATE GROUND BAR FOR I.G.</li> <li>□ RECESSED ■ SURFACE MOUNTED</li> <li>■ 200A MAINS</li> </ul>
DESCRIPTION	BKR	ССТ		ССТ	BKR	DESCRIPTION
	1	1	A	2	1	
PANEL 'M'	200A	3	в	4	150A	PANEL '2A'
		5	С	6	ļ	
	1	7	A	8	1	
PANEL 'BA	60A	9	В	10	30A	PANEL '1A'
		11	С	12		
SPARE	15A	13	A	14	15A	SPARE
SPARE	15A	15	в	16	15A	SPARE
SPARE	15A	17	С	18	15A	SPARE
SPARE	15A	19	A	20	15A	SPARE
SPARE	15A	21	в	22	15A	SPARE
SPARE	15A	23	С	24	15A	SPARE

BAR FOR I.G. CE MOUNTED	

	PANEL 2A LOCATION: 2ND FLOOR STAFF LOCKERS						<ul> <li>■ 120/208V/3 PH/4 WIRE MAINS</li> <li>□ SEPARATE GROUND BAR FOR I.G.</li> <li>■ RECESSED</li> <li>■ SURFACE MOUNTED</li> <li>■ 200A MAINS</li> </ul>
	DESCRIPTION	BKR	сст		ССТ	BKR	LOAD DESCRIPTION
	EXIT LIGHTS/BATTERIES	15A	1	A	2	15A	LIGHTING - PRESCHOOL 3
*	LIGHTING - CORRIDOR	15A	3	в	4	15A	LIGHTING - PRESCHOOL 2
*	LIGHTING - SERVERY/OFFICE	15A	5	С	6	15A	LIGHTING - PRESCHOOL 1
*	LIGHTING - STAFF/JANITOR	15A	7	Α	8	1	DRYER
*	LIGHTING - STORAGE/WC'S	15A	9	в	10	130A	(3#10-21øC.)
*	LIGHTING - STORAGE/WC'S	15A	11	С	12	Í.,	DRYER
	RECEPTACLES - LAUNDRT	20A	13	Α	14		(3#10-21øC.)
	RECEPTACLES - CORRIDOR	15A	15	в	16	1	DRYER
	RECEPTACLE - KITCHEN	20A	17	С	18		(3#10-21øC.)
	RECEPTACLE - KITCHEN	20A	19	Α	20	15A	WASHER
	RECEPTACLE - KITCHEN	20A	21	в	22	15A	RECEPTACLES - OFFICE
	STOVE	50A	23	С	24	15A	RECEPTACLES - CORR/WC'S
	(3#6-27øC.)	JUA	25	Α	26	15A	RECEPTACLES - PRESCHOOL
	EXHAUST FAN	15A	27	в	28	15A	RECEPTACLES - PRESCHOOL
	RECEPTACLE – KITCHEN	20A	29	С	30	15A	RECEPTACLES - PRESCHOOL
	RECEPTACLES – STAFF	15A	31	Α	32	15A	RECEPTACLES - PRESCHOOL
	RECEPTACLES – STAFF	20A	33	в	34	15A	RECEPTACLES - PRESCHOOL
	MICROWAVE	15A	35	С	36	15A	RECEPTACLES - EXTERIOR
	AUTOMATIC DOOR OPERATOR	15A	37	Α	38	15A	WASHER
	PRINTER	15A	39	в	40	15A	SPARE
*	ROOF LIGHTING	15A	41	С	42	15A	SPARE
	ROOF RECEPTACLES	15A	43	Α	44	15A	SPARE
	NIGHT LIGHT	15A	45	в	46	15A	SPARE
	SPARE	15A	47	С	48	15A	SPARE
	SPARE	15A	49	A	50	15A	SPARE
	SPARE	15A	51	в	52	15A	SPARE
	SPARE	15A	53	С	54	15A	SPARE

		PANEL SB					
		(STANDBY POWER)					
	_	LUCATION: BASEMENT MECHANICAL ROOM	BKR	сст		сст	
		BATTERY/EXIT LIGHTS	15A	1	A	2	
;	*	BASEMENT LIGHTING	15A	3	B	4	
;	∗⊢	BASEMENT LIGHTING	15A	5	- C	6	
;	*	BASEMENT LIGHTING	15A	7	A	8	
;	∗∣	BASEMENT LIGHTING	15A	9	в	10	
;	*	GROSS MOTOR PLAY AREA LTG	15A	11	- C	12	
;	∗⊢	GROSS MOTOR PLAY AREA LTG	15A	13	A	14	
;	≮⊢	MECH RM LIGHTING	15A	15	в	16	
		FIRE ALARM CONTROL PANEL	15A	17	С	18	
			1	19	A	20	1
		HRU–1	60A	21	в	22	
				23	С	24	
		BMS CONTROL PANEL	15A	25	A	26	Í
		WASHROOM CALL SWITCH	15A	27	в	28	
		NIGHT LIGHT	15A	29	С	30	
		SPARE	15A	31	A	32	
		SPARE	15A	33	в	34	
		SPARE	15A	35	С	36	
		SPACE		37	A	38	
¢				39	в	40	
<				41	С	42	
<				43	A	44	1
				45	в	46	
				47	С	48	
				49	A	50	
				51	в	52	

 $\star$  = circuit controlled by building management system

# PANEL BA

LOCATION: BASEMENT ELECTRICAL ROOM	ЭМ					□ SEFARATE GROUND BAR FOR I.G. □ RECESSED ■ SURFACE MOUNTED ■ 100A MAINS	
DESCRIPTION	BKR	сст		ССТ	BKR	DESCRIPTION	
MICROWAVE	15A	1	A	2	Í	STOVE	
MICROWAVE	15A	3	в	4		(3#6—27øC.)	
RECEPTACLE	15A	5	С	6	15A	EXHAUST HOOD	
TF-1	15A	7	A	8	20A	KITCHEN RECEPTACLE	
WARMING TRAY	15A	9	в	10	20A	KITCHEN RECEPTACLE	
OFFICE RECEPTACLES	15A	11	С	12	20A	KITCHEN RECEPTACLE	
OFFICE RECEPTACLES	15A	13	A	14	20A	KITCHEN RECEPTACLE	
RECEPTACLES	15A	15	в	16	15A	RECEPTACLES	
AUTOMATIC DOOR OPERATORS	15A	17	С	18	15A	RECEPTACLES	
PRINTER	15A	19	A	20	15A	RECEPTACLES	
EXTERIOR WALL MOUNTED LIGHTS	15A	21	в	22	15A	EXTERIOR SHED LIGHTING	
EXTERIOR REAR SOFFIT LIGHTS	15A	23	С	24	15A	SPARE	
EXTERIOR FRONT SOFFIT LIGHTS	15A	25	A	26	15A	SPARE	
EXTERIOR SITE LIGHTS	15A	27	в	28	15A	SPARE	
SPARE	15A	29	С	30	15A	SPARE	
SPARE	15A	31	A	32	Í		
SPARE	15A	33	в	34	30A	DISHWASHER (3#10-21¢C)	
SPARE	15A	35	С	36		(3#10-2100.)	

53 C 54

 $\star$  = CIRCUIT CONTROLLED BY BUILDING MANAGEMENT SYSTEM (BMS)

	FIRE ALARM ZONES
ZONES	DESCRIPTION
1	BASEMENT
2	GROUND FLOOR
3	SECOND FLOOR
4	STAIR 'A' (EAST)
5	STAIR 'B' (WEST)
6	ROOF
7	ELEVATOR SHAFT
8	HRU–1
9	BASEMENT WET SPRINKLER FLOW SWITCH
10	GROUND FLOOR WET SPRINKLER FLOW SWITCH
11	SECOND FLOOR WET SPRINKLER FLOW SWITCH
12	THIRD FLOOR WET SPRINKLER FLOW SWITCH
13	DRY SPRINKLER SYSTEM CHECK VALVE
14	ROOF DRY SPRINKLER LOW PRESSURE
15	GROUND FLOOR EXTERIOR CANOPY AND STORAGE ROOM DRY SPRINKLER LOW AIR PRESSURE
16	SPARE
17	SPARE
18	SPARE
19	SPARE
20	SPARE
21	SPARE

 $\star$  = Circuit controlled by building management system (BMS)

FIR	E ALARM SUPERVISORY ZONES
NUMBER	DESCRIPTION
SV-1	MAIN WATER SUPPLY SHUT OFF
SV-2	MAIN WATER BACKFLOW SHUT-OFF
SV-3	MAIN WATER SUPPLY VALVE
SV-4	WET ALARM CHECK VALVE
SV-5	BASEMENT WET SPRINKLER SHUT OFF
SV-6	GROUND FLOOR WET SPRINKLER SHUT OFF
SV-7	SECOND FLOOR WET SPRINKLER SHUT OFF
SV-8	DRY PIPE CHECK VALVE
SV-9	ROOF DRY SPRINKLER SHUT OFF
SV–10	GROUND FLOOR EXTERIOR CANOPY AND STORAGE ROOM DRY SPRINKLER SHUT OFF
SV-11	DRY SPRINKLER MAIN RISER SHUT OFF
SV-12	ROOF LEVEL DRY SPRINKLER SHUT OFF
SV-13	ROOF LEVEL DRY SPRINKLER PRESSURE SWITCH
SV-14	BASEMENT SPRINKLER SHUT OFF
SV-15	GROUND FLOOR SPRINKLER SHUT OFF
SV-16	SECOND FLOOR SPRINKLER SHUT OFF
SV-17	LOW AIR PRESSURE SWITCH
	SPARE

FIRE	ALARM TROUBLE ZONES
NUMBER	DESCRIPTION
SV–1	LOSS OF WATER PRESSURE
SV-2	COMPRESSOR OFF
SV-3	SPARE
SV-4	SPARE
SV–5	SPARE

![](_page_59_Figure_20.jpeg)

	<ul> <li>■ 120/208V/3 PH/4 WIRE MAINS</li> <li>□ SEPARATE GROUND BAR FOR I.G.</li> <li>□ RECESSED ■ SURFACE MOUNTED</li> <li>■ 200A MAIN BREAKER</li> </ul>		
BKR	DESCRIPTION		
15A	FRIDGE		
20A	FREEZER		
15A	ELEVATOR RECEPTACLE		
15A	I.T. ROOM RECEPTACLES		
15A	I.T. ROOM RECEPTACLES		
15A	REFUGE AREA RECEPTACLE		
15A	ELEVATOR CLOSET RECEPTACLE		
15A	UNIVERSAL WASHROOM CALL		
15A	MOTORIZED DAMPERS		
60A	PANEL 'SB1'		
15A	SPARE		
	SPACE		
	•		
2004	FUTURE BATTERY CONNECTION (200A BREAKER OR SUB-FEED LUG KIT)		
(BMS)			
	■ 120/208V/3 PH/4 WIRE MAINS □ SEPARATE GROUND BAR FOR I.G. □ RECESSED ■ SURFACE MOUNTED		

UPON ACTIVATION OF A FIRE ALARM DEVICE THE FOLLOWING WILL

OCCUR: 1. FIRST STAGE ALERT; 1.1. SUPPLY AND EXHAUST FANS SHUT DOWN 1.2. ELEVATORS RETURN TO MAIN FLOOR 1.3. AUDIBLE DEVICES ACTIVATED.

SECOND STAGE ALERT AFTER 5 MINUTES IF NO ACKNOWLEDGEMENT AT CONTROL PANEL:
 2.1. AN EVACUATION SIGNAL ACTIVATED

### Key to Detail Location

( NO. \ <u>NO.</u>

Detail Number Drawing Number

If this sheet is not 33 1/8" x 23 3/8" (841 x 594 mm) It is a reduced print Read dwg. accordingly.

Contractors must check and verify all dimensions on the job and report any discrepancies to the Architect before proceeding with the work.

All prints and specifications are the property of the Architect and must be returned at the completion of the work.

Drawings should not be scaled.

Nc	Date	Revision/Issued
1	2018 06 29	50% CONTRACT DOCUMENTS
2	2018 08 03	70% CONTRACT DOCUMENTS
3	2018 09 04	COORDINATION
4	2018 09 11	COORDINATION
5	18-09-11	ISSUED FOR 95% COMPLETION
6	18-10-03	ISSUED FOR PERMIT
7	19-04-05	ISSUED FOR TENDER CLIENT REVIEW
8	19-05-07	ISSUED FOR TENDER

consultants architects

structural engineer

mechanical &

electrical engineer

landscape architect

civil engineer

COOLEARTH ARCHITECTURE INC. 386 Pacific Ave. Toronto, ON, M6P 2R1 Phone: 416-868-9774

CS&P ARCHITECTS INC. 2345 Yonge St., Suite 200 Toronto, ON. M4P 2E5 Phone: 416-482-5002

STEPHENSON ENGINEERING 2550 Victoria Park Ave., Suite 602 Toronto, ON M2J 5A9 Phone: 416-635-9970

R MANCINI AND ASSOCIATES 30 Martha St Suite 203 Bolton, ON L7E 5V1 Phone: 905-951-6292

PMA LANDSCAPE ARCHITECTS LTD. 359 Keele Street Toronto, ON, M6P 2K6 Phone: 416-239-9818

MASONGSONG ASSOCIATES ENGINEERING LTD. 7800 Kennedy Road, S. 201 Markham, ON, L3R 2C7 Phone: 905-944-0162

![](_page_59_Picture_43.jpeg)

![](_page_59_Picture_44.jpeg)

# R.Mancini and Associates Ltd. Geothermal / Energy Consultants

30 Martha St.. Suite 203, Bolton, Ontario L7E 5V1 Tel: (416) 236-2626, (905) 951-6292 Fax: (905) 951-0305 Website: www.geothermax.com E-mail rmancini@geothermax.com

### MOUNT DENNIS CHILDCARE CENTRE 1234 WESTON ROAD, TORONTO, ON M6M 4P8

FIRE ALARM ZONES AND PANEL SCHEDULES ELECTRICAL

scale: date: drawn: checked by: CS&P project number: RMA project number: drawing number:

N.T.S. 03/02/18 P.R. R.M. 17026 RMA-17-05

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