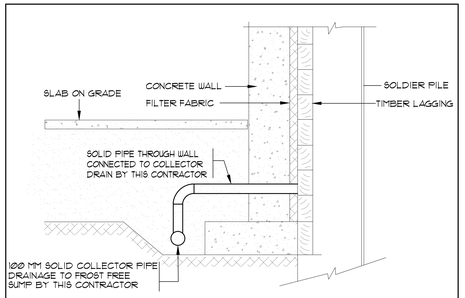
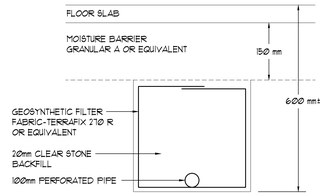


WEEPING TILE INSTALLATION DETAILS

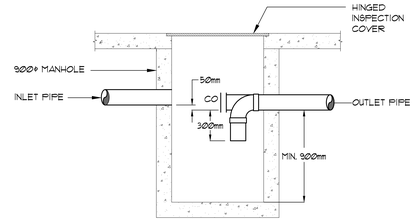
N.T.S.



NOTES:
1) THE DRAINAGE TILE SHOULD BE INSTALLED ON A POSITIVE GRADIENT LEADING TO A FROST FREE SUMP.
2) THE MAXIMUM DISTANCE BETWEEN THE DRAINAGE TILES, PLACED IN PARALLEL ROWS, SHOULD NOT EXCEED 6m.
3) THE JOINTS BETWEEN THE FILTER FABRIC SHOULD OVERLAP AND THERE SHOULD BE NO GAPS OR TEARS IN THE FABRIC TO PREVENT LOSS OF FINES.

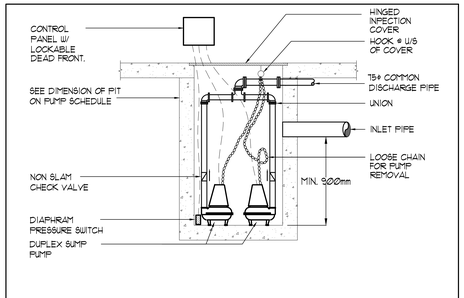
SUBFLOOR DRAINAGE DETAIL

N.T.S.



SAND TRAP DETAIL

N.T.S.



TYPICAL SUMP PIT DETAIL

N.T.S.

REFER TO DWG. M-3 FOR GENERAL AND ACOUSTIC NOTES

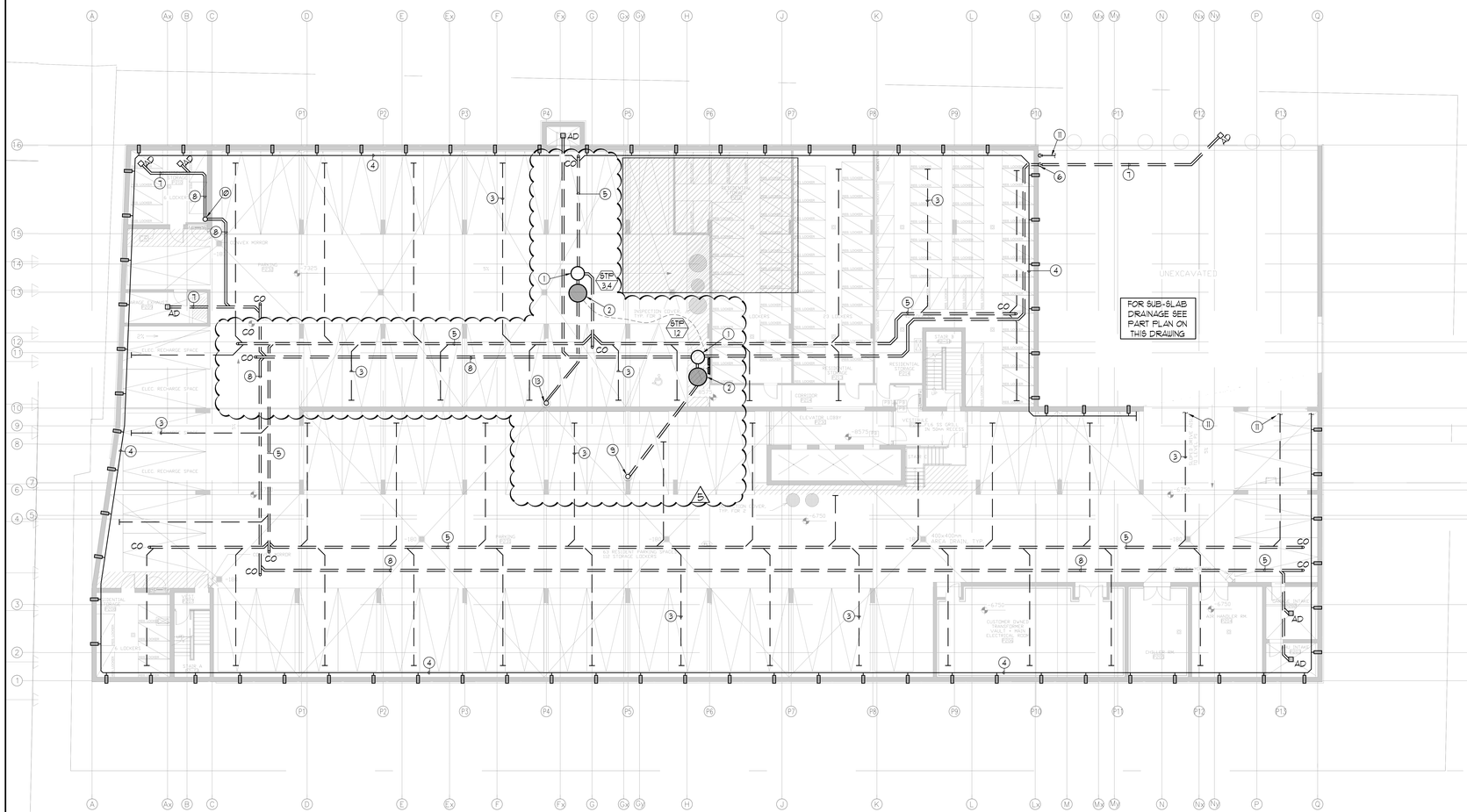
⚠ 2550mm CLEAR FLOOR TO UNDERSLAB

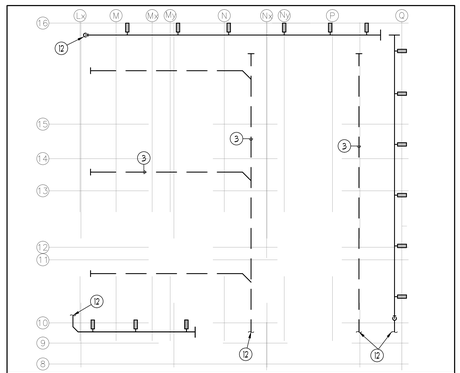
NOTES:

1. SAND TRAP. SEE DETAIL ON THIS DRAWING.
2. STORM SUMP PUMP PIT. FOR EQUIPMENT SCHEDULE OF PUMP AND PIT SIZE SEE DETAIL ON THIS DRAWING.
3. 100ø SUB-FLOOR WEEPING TILE @ 1%. SEE SUB-FLOOR DRAINAGE DETAIL ON THIS DRAWING. (TYPICAL)
4. 100ø SOLID COLLECTOR PIPE @ 1%. SEE WEEPING TILE INSTALLATION DETAIL ON THIS DRAWING. (TYPICAL)
5. 150ø SOLID COLLECTOR PIPE @ 1%.
6. 100ø STM FROM ABOVE AND DOWN.
7. 100ø STM @ 1%.
8. 150ø STM @ 1%.
9. 75ø STM PUMPED UP c/w HEAT TRACING. HEAT TRACING BY DIV. 16. INSULATION AND JACKET BY THIS CONTRACTOR.
10. 150ø STM DOWN c/w CLEANOUT AT BASE.
11. FOR CONTINUATION SEE PART PLAN ON THIS DRAWING.
12. FOR CONTINUATION SEE SUB-SLAB DRAINAAGE LAYOUT ON THIS DRAWING.
13. 75ø PUMPED PIPE UP c/w HEAT TRACING. HEAT TRACING BY DIV. 16 INSULATION AND JACKET BY THIS CONTRACTOR.

STORM PIT STP-1, STP-2, STP-3, STP-4

QTY.	DESCRIPTION
4	BARNES 2SE-554L SUBMERSIBLE PUMPS INSIDE A 900MMø SUMP PIT, EACH C/W 1/2 HP, 575 VOLT, 3 PHASE, 60 CYCLE MOTOR WITH 30 FT POWER CORD, 2" N.P.T. DISCHARGE, HANDLES 2" DIAMETER SOLIDS AND DELIVERS 35 U.S. G.P.M. AT 22 FT TOTAL HEAD.
2	LDP 575 DUPLEX ELECTRICAL ALTERNATOR, STARTER AND CONTROL PANEL, WITH LOCKABLE DEAD-FRONT, 575 VOLT, 3 PHASE, 60 CYCLE C/W H.O.A. SELECTOR SWITCHES, RUN LIGHTS, THERMAL OVERLOAD HEATERS TO SUIT PUMP MOTORS WITH RESET BUTTON, AND CIRCUIT BREAKERS IN EEMAC 3R ENCLOSURE.
8	LS 20 MECHANICAL LEVEL SENSORS, 1 FOR PUMP "ON", 1 FOR PUMP "OFF", 1 FOR BOTH PUMPS "ON", AND 1 FOR ALARM LEVEL.
2	LHW 115 HIGH WATER ALARM PANEL, 115 VOLT, 1 PHASE WITH PILOT LIGHT, ON-OFF-TEST SWITCH, BUZZER AND EXTRA RELAY FOR REMOTE SIGNALING, IN EEMAC 1 ENCLOSURE.
2	TRIM BAR CURB FRAME C/W CHECKERED COVER PLATE IN 2 SECTIONS, FOR INSPECTION AND ACCESS.





PART PLAN OF P-1 SUB-SLAB DRAINAGE LAYOUT

N.T.S.

LEGEND MECHANICAL

SYMBOL	DESCRIPTION
	SUPPLY AIR DIFFUSER
	SUPPLY AIR TROFFER
	LINEAR SUPPLY DIFFUSER
T	THERMOSTAT
S	FAN SWITCH
	RETURN AIR GRILLE
	EXHAUST AIR GRILLE
	SUPPLY DUCT UP
	SUPPLY DUCT DOWN
	RETURN DUCT UP
	RETURN DUCT DOWN
	EXHAUST DUCT UP
	EXHAUST DUCT DOWN
FD	FIRE DAMPER
BD	BALANCING DAMPER
MD	MOTORIZED DAMPER
MFD	MOTORIZED FIRE DAMPER
BDD	BACKDRAFT DAMPER
OBD	OPPOSED BLADE VOLUME CONTROL DAMPER CW LOCKING QUADRANT
VN	TURNING VANES
	FLEXIBLE CONNECTION
	ACOUSTIC INSULATION
XX	TYPE OF EQUIPMENT EQUIPMENT IDENTIFICATION
XXX	TYPE OF DIFFUSER OR GRILLE
XXX	GRILLE SIZE OR DIFFUSER NECK SIZE
XXX	AIRFLOW (CFM OR L/S)
S	STARTER (3 PHASE , 1 PHASE)
S	IN-SUITE ERV MASTER SWITCH
S	FAN SWITCH / IN-SUITE ERV OVERRIDE BUTTON
CO	CO SENSOR
G	GAS LINE
G	GAS METER
G	GAS COCK
PR	PRESSURE REDUCING VALVE
	SANITARY ABOVE GRADE
	SANITARY BELOW GRADE
	STORM ABOVE GRADE
	STORM BELOW GRADE
	DOMESTIC COLD WATER
	DOMESTIC HOT WATER
	DOMESTIC HOT WATER RECIRCULATION
	SANITARY VENT
WM	WATER METER
FD	FLOOR DRAIN
FFD	FUNNEL FLOOR DRAIN
HD	HUB DRAIN
RD	ROOF DRAIN
SLD	SLAB DRAIN
AD	AREA DRAIN
BLAD	BI-LEVEL AREA DRAIN
CB	CATCH BASIN
	SANITARY TRAP
E	ELBOW UP
E	ELBOW DOWN
CO	WALL CLEANOUT
CO	FLOOR CLEANOUT
HB	HOSE BIBB
NFHB	NON-FREEZE HOSE BIBB
	GLOBE VALVE
	GATE VALVE
	BALL VALVE
	BUTTERFLY VALVE
	PRESSURE REDUCING VALVE
	CHECK VALVE
	CAP
CA	COMPRESSED AIR OUTLET
	BACKFLOW PREVENTER
	CIRCUIT BALANCING VALVE
	MULTIPLE PIPES / - DENOTES NO. OF PIPES
T	TEMPERATURE SENSOR
T	THERMOMETER
	2-WAY MODULATING VALVE
	3-WAY MODULATING VALVE
	1/2"x4"(D) THERMOWELL C/W 1/2" BUSHING X 1/2" PLUG
XXX	FLOOR ELEVATION ABOVE LEVEL
XXX	FLOOR ELEVATION TWO LEVEL
XXX	HEADROOM FLOOR TO U/S (460MIN)

DATE	NO.	DESCRIPTION	BY
2013/05	5	ISSUED FOR SITE INSTRUCTION #1-3	E.P.
2013/05	4	ISSUED FOR SITE INSTRUCTION #1-1	E.P.
2013/04	3	ISSUED FOR TENDER	E.P.
2013/01	2	RE-ISSUED FOR PERMIT	E.P.
2012/10	1	ISSUED FOR PERMIT	E.P.

MARK VOID ALL PRINTS DATED PREVIOUS TO FINAL DATE ABOVE

REVISIONS

CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS ON THE JOB AND REPORT DISCREPANCIES TO THE ENGINEERS BEFORE PROCEEDING WITH THE WORK. THIS DRAWING IS THE PROPERTY OF THE ENGINEERS AND MUST BE RETURNED UPON COMPLETION OF THE WORK.

DRAWINGS ARE NOT TO BE SCALED

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Fax: 905 882-5447

DRAWING TITLE:
P-2 FLOOR PLAN
SUB -SLAB DRAINAGE LAYOUT

PROJECT TITLE:
SQ ALEXANDRA PARK
BLOCK 11
38 CAMERON STREET
TORONTO ONTARIO

DRAWN BY:	CHECKED BY:	SCALE:
G.S.	E.P.	1:100
DATE: FEB. 13	PROJECT NUMBER: 1313	DRAWING NUMBER: M-2 OF 43

Drawing name: \\CADSERVER\Current Dwgs\1313\1313M-2P-2 PLAN - SUB-SLAB DRAINAGE LAYOUT.dwg Plotted: Apr 27, 2013 - 10:01am