



UNITED ENGINEERING INC
Mechanical and Electrical Consulting Engineers

3645 Keele St. #105
Toronto, ON, M3J 1M6
Email: info@u-eng.ca
T: (416) 398-1999
F: (416) 398-1933

SITE INSTRUCTION

PROJECT: HAMPTON MANOR
25 BAKER HILL BLVD
STOUFFVILLE, ONTARIO

PROJECT NO: 14-016

CONTRACT: Electrical

DATE August 29, 2017

SITE INSTRUCTION: E-7

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

Purpose: Clarification.

1.0 Reference Drawings E-1 (Site Plan) Issued

1.1 Revised: Transformer's note, as noted on drawing.

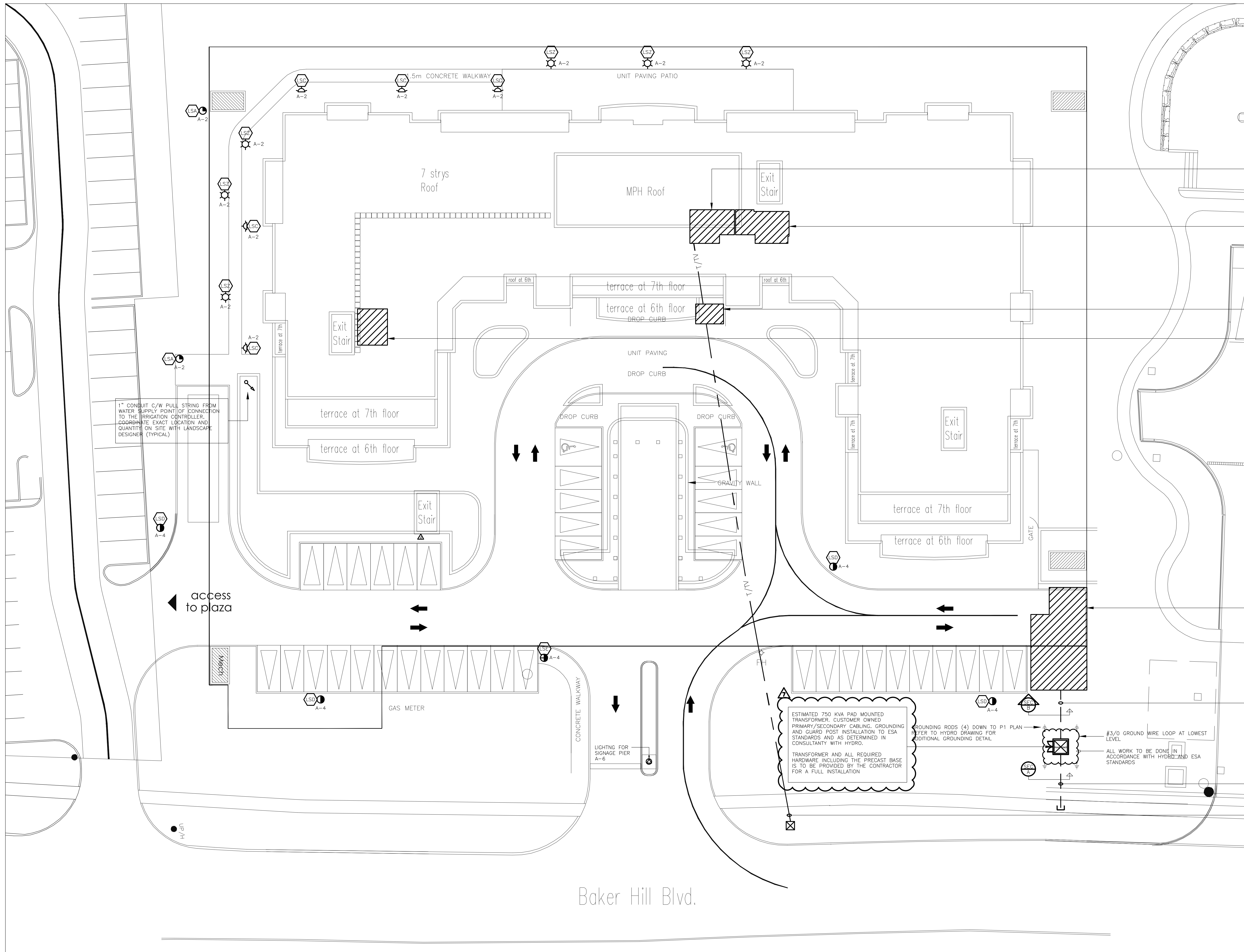
Note: The site instruction & drawing will be uploaded to FTP SITE

PREPARED BY: _____


Chula Meksavanh
Electrical Department

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

cc. GRAZIANI + CORAZZA ARCH. INC.,
Gino Colangelo, GColangelo@gc-architects.com
REXCON CONSTRUCTION, Lenny Simonelli, rexcon.construxtion@gmail.com



APPROXIMATELY LOCATION OF COMMUNICATION ROOM LOCATED ON P1 LEVEL

APPROXIMATELY LOCATION OF SUB-ELECTRICAL 1 ROOM LOCATED ON P1 LEVEL

APPROXIMATELY LOCATION OF CACT ROOM LOCATED ON GROUND FLOOR

APPROXIMATELY LOCATION OF SUB-ELECTRICAL 2 ROOM LOCATED ON P1 LEVEL

APPROXIMATELY LOCATION OF MAIN ELECTRICAL ROOM LOCATED ON P1 LEVEL

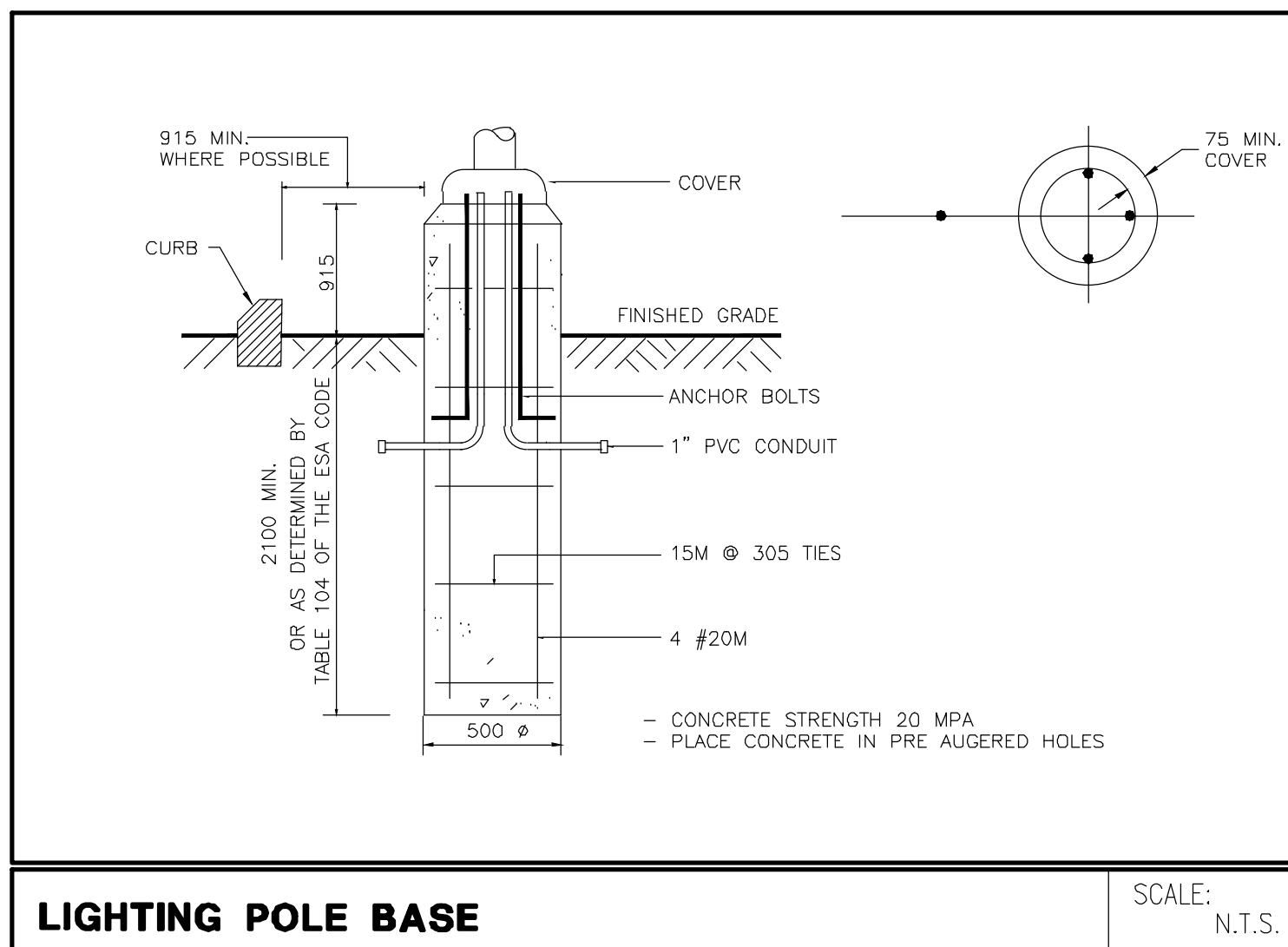
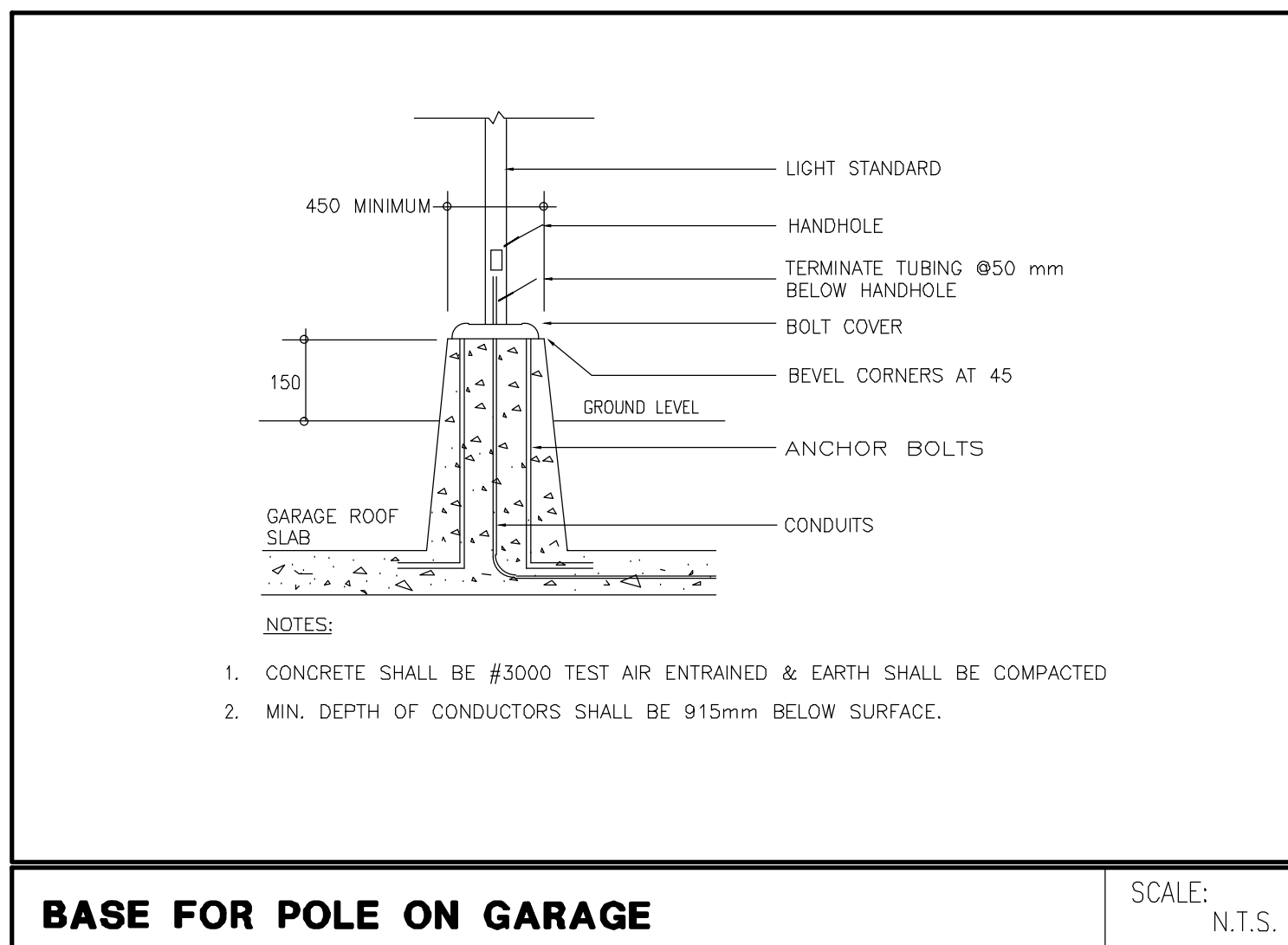
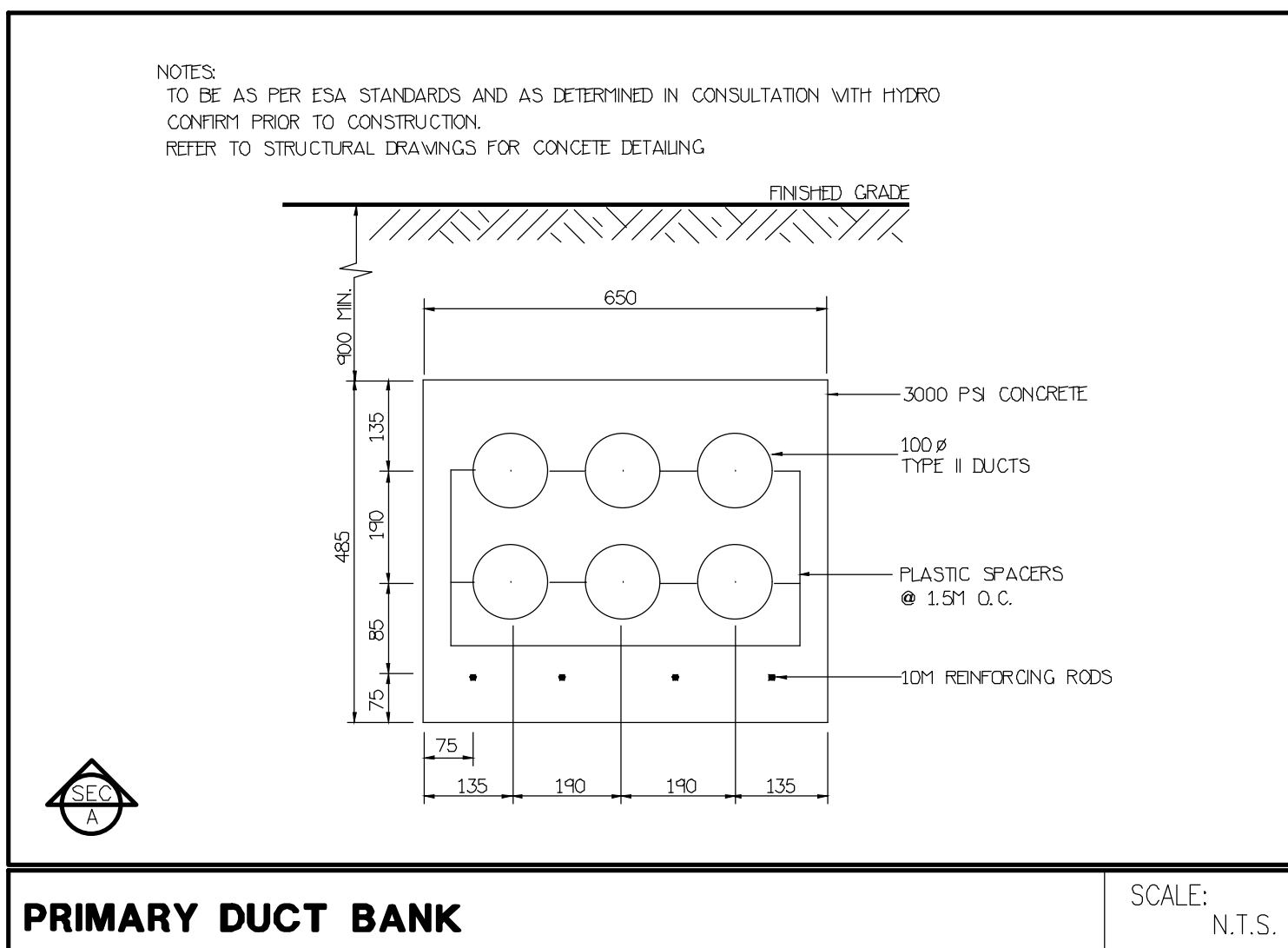
4 X 100MM SECONDARY PVC DUCTS BANK TO HYDRO CONCRETE ENCASED (SEE SECONDARY DUCT BANK DETAIL SEC/9, THIS DRAWING)

6 X 100MM PRIMARY PVC DUCTS BANK TO HYDRO CONCRETE ENCASED. CONFIRM REQUIREMENTS AND CONNECTION POINT WITH HYDRO. ALL WORK TO BE DONE IN ACCORDANCE WITH HYDRO/ESA STANDARDS. PRIMARY DUCT BANK TO BE ON PRIVATE PROPERTY UNITS. THEY MEET HYDRO'S EXISTING ROAD CROSSING. CONNECTION POINT TO BE COORDINATED WITH SUPPLIERS

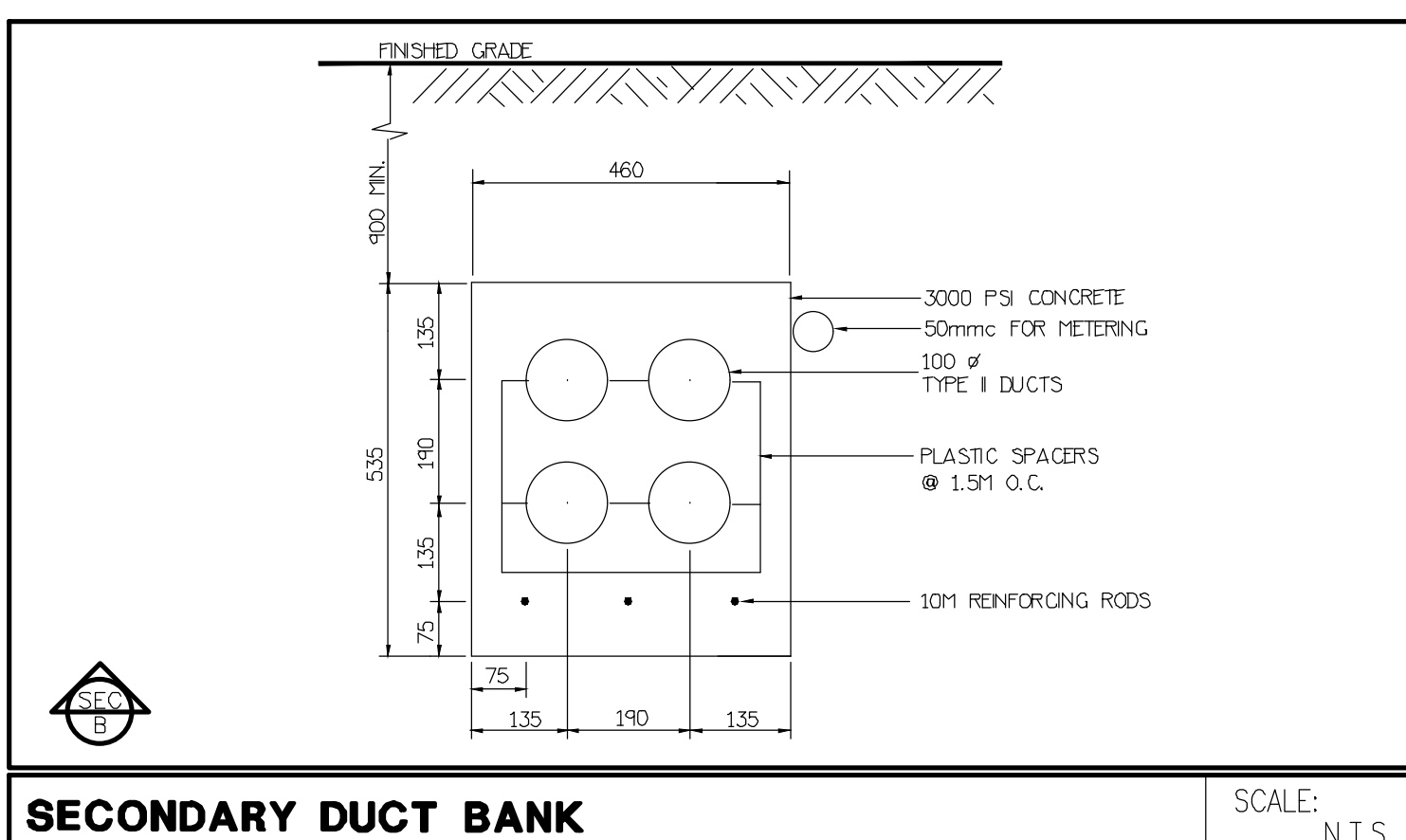
3/4" MAN INCOMING COMMUNICATIONS (TEL./TV) FEEDERS:
1-4" BELL
1-4" ROGERS
1-4" SPARE
STUBBED THRU FOUNDATION WALL. COORDINATE ON SITE WITH UTILITY FOR EXACT LOCATION. SEAL AND MAKE SAFE CONNECTION POINT TO BE COORDINATED WITH UTILITY

- ### LEGEND
- ○ INCANDESCENT LIGHTING FIXTURE CEILING AND WALL MOUNTED RESPECTIVELY
 - ⊙ ⊙ AS ABOVE ONLY CONNECTED TO EMERGENCY SUPPLY
 - FLUORESCENT LIGHTING FIXTURE CEILING MOUNTED
 - AS ABOVE ONLY CONNECTED TO EMERGENCY SUPPLY
 - EXISTING LIGHTING FIXTURE TO BE RELOCATED
 - EXISTING LIGHTING FIXTURE TO BE REMOVED
 - TRACK LIGHTING, TYPE PER SCHEDULE
 - FLUORESCENT STRIP LIGHT
 - ⊙ ⊙ CEILING OR WALL MTD ILLUMINATED EXIT SIGN. SPANDED AREA INDICATES ILLUMINATED FACE. GREEN RUNNING MAN PICTOGRAM COMPLY WITH CBC 2012
 - ⊙ EXTERIOR LIGHTING STANDARD AS PER SCHEDULE
 - ⊙ EXTERIOR LIGHTING STANDARD AS PER SCHEDULE
 - ⊙ 120V U-GROUND DUPLEX RECEPTACLE
 - ⊙ 120V U-GROUND QUAD RECEPTACLE
 - ⊙ 120V U-GROUND DUPLEX OPTI RECEPTACLE
 - ⊙ 120V 20A T-SLOT RECEPTACLE
 - ⊙ 120V U-GROUND DUPLEX RECEPTACLE WITH ONE HALL SWITCH CONTROLLED
 - ⊙ 250V 14 #W SDA RECEPTACLE CONNECT WITH 3/8" BX OR 3/8" TWH-19MM CONDUIT
 - ⊙ 250V 14 #W SDA RECEPTACLE CONNECT WITH 3/8" BX OR 3/8" TWH-19MM CONDUIT
 - ⊙ SINGLE RECEPTACLE, VOLTAGE AND RATING AS SHOWN ON DRAWINGS
 - ⊙ WALL MOUNTED MOVABLE PARTITION FEED POINT
 - ⊙ FLOOR MOUNTED MOVABLE PARTITION FEED POINT
 - ⊙ ANY OF THE ABOVE DEVICES MOUNTED ABOVE COUNTER TOP OR AS INSTRUCTED ON SITE
 - ⊙ DUPLEX RECEPTACLE FLOOR MOUNTED
 - ⊙ DUPLEX RECEPTACLE CEILING MOUNTED
 - ⊙ DUPLEX RECEPTACLE MOUNTED IN MILLWORK
 - ⊙ DATA OUTLET FLOOR MOUNTED
 - ⊙ VOICE/DATA OUTLETS MOUNTED IN MILLWORK
 - ⊙ VOICE/DATA OUTLETS WALL MOUNTED
 - ⊙ PAC-POLE
 - ⊙ CEILING OR WALL MOUNTED JUNCTION BOX
 - ⊙ PHOTO ELECTRIC CELL
 - ⊙ SINGLE POLE, SINGLE THROW TOGGLE SWITCH WITH ONE, TWO AND THREE GANG COVERPLATES
 - ⊙ THREE-WAY SWITCH
 - ⊙ FOUR-WAY SWITCH
 - ⊙ MANUAL TIME SWITCH MID 1100AM AFT (PARAGON FTS-50, 30 MINUTES), EXCEPT AS NOTED
 - ⊙ SWITCH WITH PILOT LIGHT
 - ⊙ DIMMER SWITCH, 1500W RATED, PROVIDE DIMMING BALLAST FOR FLUORESCENT
 - ⊙ LOW VOLTAGE SWITCH
 - ⊙ 347V SWITCH
 - ⊙ FAN SWITCH
 - ⊙ KEY SWITCH
 - ⊙ MASTER OPERATION SWITCH
 - ⊙ OCCUPANCY SENSORS FOR LIGHTING CONTROL
 - ⊙ CEILING MOUNTED OCCUPANCY SENSORS
 - ⊙ WALL MOUNTED OCCUPANCY SENSORS
 - ⊙ DIRECT CONNECTION OUTLET AS NOTED
 - ⊙ SINGLE PHASE MOTOR, HP (KW) AS NOTED
 - ⊙ THREE PHASE MOTOR, HP (KW) AS NOTED
 - ⊙ MANUAL MOTOR STARTER
 - ⊙ MAGNETIC MOTOR STARTER
 - ⊙ CONTACTOR OR STARTER
 - ⊙ CONTACTOR OR STARTER
 - ⊙ DISCONNECT SWITCH, SIZE AS NOTED
 - ⊙ THERMOSTAT SUPPLIED BY OTHERS, INSTALLED BY DIV. 16
 - ⊙ LOW LIMIT THERMOSTAT C/W FIRE ALARM TROUBLE ZONE, PROVIDED BY DIV. 16
 - ⊙ HUMIDISTAT SUPPLIED BY OTHERS, INSTALLED BY DIV. 16
 - ⊙ LOW VOLTAGE VALVE AND TRANSFORMER SUPPLIED BY OTHERS, INSTALLED BY DIV. 16
 - ⊙ FAN SPEED CONTROLLER SUPPLIED BY OTHERS, INSTALLED BY DIV. 16
 - ⊙ PIPE TRACING HEATING CABLE
 - ⊙ DRUM DRIP OR INSPECTION TEST ELECTRICALLY TRACED
 - ⊙ ELECTRIC HEATER PER SCHEDULE EL HEATER IDENTIFIER (4W TYPE, 1.0-4KW)
 - ⊙ TELEPHONE ZONE CONDUIT
 - ⊙ WALL MOUNTED TELEPHONE OUTLET
 - ⊙ FLOOR MOUNTED TELEPHONE OUTLET
 - ⊙ WALL MOUNTED LOW TENSION OUTLET
 - ⊙ WALL MOUNTED MICROPHONE OUTLET
 - ⊙ WALL MOUNTED INTERCOM OUTLET
 - ⊙ WALL MOUNTED EMERGENCY PULL SWITCH/INTERCOM
 - ⊙ FLOOR MOUNTED LOW TENSION OUTLET
 - ⊙ IN SUITE, TELEPHONE/TV COMBO DISTRIBUTION PANEL, 120V OUTLET ABOVE THE PANEL, TO BE FED FROM SUITE MAIN
 - ⊙ WALL MOUNTED TELEVISION OUTLET
 - ⊙ TV/TELEPHONE IN SEPARATE BOXES AND FACILITIES (MULTI PORT) - FOR SOLE PURPOSE OF CONNECTING DATA MODEM WITH ROGERS/BELL PROVIDERS
 - ⊙ WALL MOUNTED IN SUITE SECURITY PANEL
 - ⊙ ENTERPHONE OR SECURITY OPERATED MAGLOCK
 - ⊙ GARD READER
 - ⊙ SECURITY DOOR MONITOR SWITCH
 - ⊙ SECURITY SYSTEM MOTION DETECTOR
 - ⊙ SECURITY SYSTEM DOOR CONTACT
 - ⊙ SECURITY INTERCOM OUTLET
 - ⊙ PANIC ALARM RECEIVER C/W INTERCOM
 - ⊙ CCTV CAMERA
 - ⊙ SIGNAL BELL
 - ⊙ SIGNAL BUZZER
 - ⊙ SIGNAL PUSH BUTTON
 - ⊙ POWER CONNECTION FOR AUTOMATIC DOOR OPERATOR
 - ⊙ DOOR STRIKE CONTROLLED BY INTERCOM OR ENTERPHONE
 - ⊙ SIGNAL TRANSFORMER
 - ⊙ CARBON MONOXIDE DETECTOR
 - ⊙ CEILING OR WALL MOUNTED P.A. SPEAKER BY OTHERS, OBTAIN BACKSHEET AND INSTALL
 - ⊙ SPEAKER VOLUME CONTROL
 - ⊙ AUDIO VISUAL KEYPAD
 - ⊙ WALL MOUNTED CLOCK
 - ⊙ MASTER CLOCK
 - ⊙ EMERGENCY LIGHTING BATTERY UNIT
 - ⊙ 1 AND/OR 2 HEADS EMERGENCY LIGHTING
 - ⊙ MANUALLY OPERATED FIRE ALARM STATION
 - ⊙ FIRE ALARM BELL
 - ⊙ SURFACE MOUNTED FIRE ALARM SPEAKER IN GARAGE
 - ⊙ FIRE ALARM HORN WALL SURFACE MOUNTED IN GARAGE
 - ⊙ FIRE ALARM MINI HORN FLUSH MOUNTED
 - ⊙ FIRE ALARM STROBE LIGHT
 - ⊙ FIRE ALARM COMBINATION HORN/STROBE LIGHT
 - ⊙ FIRE ALARM CEILING MOUNTED SPEAKER
 - ⊙ FIRE ALARM WALL MOUNTED SPEAKER
 - ⊙ HEAT DETECTOR 94 DEGREE C FIXED
 - ⊙ HEAT DETECTOR 58 DEGREE C FIXED TEMP. & RATE OF RISE
 - ⊙ COMBINATION 120V SMOKE ALARM & HEAT DETECTOR
 - ⊙ PHOTOELECTRIC SMOKE DETECTOR
 - ⊙ IONIZATION SMOKE DETECTOR
 - ⊙ DUCT MOUNTED SMOKE DETECTOR
 - ⊙ 120V SMOKE ALARM
 - ⊙ FIRE ALARM OPERATED DOOR HOLD OPEN DEVICE
 - ⊙ COMBINATION 120V CO AND SMOKE DETECTOR
 - ⊙ FIRE ALARM ISOLATION SWITCH CEILING MOUNTED
 - ⊙ SUPERVISORY VALVE WIRED BY THIS DIVISION
 - ⊙ SPRINKLER FLOW ALARM WIRED BY THIS DIVISION
 - ⊙ SPRINKLER PRESSURE SWITCH WIRED BY THIS DIVISION
 - ⊙ SPEAKER VOLUME CONTROL
 - ⊙ FIRE FIGHTER TELEPHONE/HANDSET
 - ⊙ TIME SWITCH (PARAGON 4200-SZ, SKIP-A-DAY, ASTROLOGICAL, 24 HOURS)
 - ⊙ SURFACE MOUNTED LIGHTING OR POWER PANEL
 - ⊙ FLUSH MOUNTED LIGHTING OR POWER PANEL
 - ⊙ NEXT TO DEVICES INDICATES WEATHER PROOF, GROUND FAULT INTERRUPTER AND ISOLATED GROUNDING
 - ⊙ IDENTIFIES LIGHTING FIXTURE TYPE
 - ⊙ RECESSED STEP LIGHT

- NOTE:
THIS LEGEND IS GENERIC. ALL SYMBOLS LISTED MAY NOT BE APPLICABLE FOR THIS PROJECT. REFER TO FLOOR PLANS TO DETERMINE USED DEVICES AND EQUIPMENT.



- ### GENERAL NOTES:
- ELECTRICAL DRAWINGS TO BE READ IN CONJUNCTION WITH THE ARCHITECTURAL, MECHANICAL, FIRE PROTECTION, INTERIOR DESIGN, LANDSCAPE AND STRUCTURAL DRAWINGS. CONTRACTOR TO ALLOW FOR ALL COORDINATION TO BE COMPLETED ON SITE.
 - ALL SECURITY CONDUIT TO BE PROVIDED IN COORDINATION WITH SECURITY SUPPLIER
 - ALL WORK TO BE IN ACCORDANCE WITH HYDRO/ESA STANDARDS AND AS DIRECTED BY ON SITE INSPECTORS.
 - ALL PENETRATES THRU CORE SLAB TO BE SMOKE SEALED IN ACCORDANCE WITH CODE AND MANUFACTURERS RECOMMENDATIONS. ALL WIRING IN SUITES TO BE BX WHERE POSSIBLE.
 - FINAL DRUM DRIPS LOCATION MUST BE CO-ORDINATED WITH THE MECHANICAL CONTRACTOR ON SITE. ALL DRUM DRIPS TO BE ELECTRICALLY TRACED AND INSULATED. FED FROM PANEL "1P".
 - FINAL EXPOSED P-TRAPS TO BE CO-ORDINATED WITH THE MECHANICAL CONTRACTOR ON SITE. ALL EXPOSED P-TRAPS TO BE ELECTRICALLY TRACED AND INSULATED. FED FROM PANEL "1P".
 - ALL HEAT TRACING FOR WET SPRINKLERS AND STANDPIPE IS REQUIRED TO HAVE A SUPERVISORY SIGNAL ON FIRE ALARM SYSTEM CONTROL PANEL WHEN THERE IS A LOSS OF POWER.
 - COMPLETE NETWORKED GAS DETECTION AND CONTROL SYSTEM TO BE PROVIDED AND INSTALLED WHERE THE VENTILATION SYSTEM WILL BE HOOKED UP DIRECTLY TO THE GAS DETECTION SYSTEM. (REFER TO CO MONITOR SYSTEM TYPICAL INSTALLATION DETAIL FOR MORE INFORMATION).
 - PROVIDE LIGHT SWITCH(ES) WHICH IS (ARE) INTERLOCKED WITH THE OPERATION OF THE EXHAUST FAN SERVING MECHANICAL STORAGE AND/OR LOCKER ROOMS. OTHERWISE PROVIDE 24HRS OPERATION FOR THE FANS. COORDINATE WITH DIV. 15 PRIOR TO ROUGH-IN.
 - FOR SITE LIGHTING, OPERATIONAL PRACTICES TO BE MADE TO REDUCE LIGHT POLLUTION AND SPILL LIGHT (LIGHT BEYOND AREAS THAT NEED TO BE LIT FOR SAFETY AND SECURITY REASONS).
 - PEDESTRIAN SCALED LIGHTING MUST BE DIRECTED DOWNWARD AND INCLUDES FIXTURES SUCH AS BOLLARDS OR LOWER SCALE POLE FIXTURES ALONG PEDESTRIAN ROUTES TO MINIMIZE LIGHT POLLUTION.
 - WHERE CEILING HEIGHT EXCEEDS 10' FIXTURES ARE TO BE STEM OR CHAIN HUNG TO A HEIGHT OF 12' AFF EXCLUDING GARAGE LIGHT FIXTURES. INTERIOR DESIGN FIXTURES TO BE AS PER INTERIOR DESIGN DRAWINGS.
 - OCCUPANCY-BASED LIGHTING CONTROL DEVICES TURN LIGHTS OFF WITHIN 30 MINUTES OF ALL OCCUPANTS LEAVING THE SPACE OR A SIGNAL FROM ANOTHER CONTROLLER.
 - RECEPTACLE OR MOTION COUNTER (FOR PERSON WITH DISABILITIES) - BATHROOMS/WASHROOMS (PROVIDED THAT NO RECEPTABLES ARE CONNECTED TO THESE CIRCUITS).
 - FRIDGE, KITCHEN COUNTER, KITCHEN ISLAND AND PENINSULA
 - FLOOR OUTLET BOXES SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR THE TYPE OF FLOOR INTENDED.
 - CONFIRM VOLTAGE AND SUPPLY OF THERMOSTATS QUANTITY WITH MECHANICAL DRAWINGS. COORDINATE ON SITE.
 - LOW VOLTAGE DRY TYPE TRANSFORMERS (AIR COOLED <=800V) TO MEET NOMINAL EFFICIENCY REQUIRED BY ASHRAE 90.1



DWG. #	TITLE	SCALE
E-1	SITE PLAN	1:200
E-3A/E-2B	PARKING P1 LEVEL	1:100
E-3A/E-3B	GROUND FLOOR PLAN	1:100
E-4A/E-4B	2ND FLOOR PLAN	1:100
E-5A/E-5B	3RD - 5TH FLOOR PLANS	1:100
E-6A/E-6B	6TH FLOOR PLAN	1:100
E-7A/E-7B	7TH FLOOR PLAN	1:100
E-8	MECHANICAL PENTHOUSE	1:100
E-9A	DETAILS 1	N.T.S.
E-9B	DETAILS 2	N.T.S.
E-10	RISER DIAGRAMS	N.T.S.
E-11	SINGLE LINE DIAGRAM	N.T.S.
E-12	PANEL SCHEDULES	N.T.S.

PANEL IDENTIF.:	A	SERVICE:	208Y/120V, 3Ø, 4W			NOTES:
		MAIN CDT, BRK:	-			
		MAINS:	125 AMPS			
		MOUNTING:	SURFACE			
LOAD DESCRIPTION	WATTS	BRK	CIRCUITS	BRK	WATTS	LOAD DESCRIPTION
EXTERIOR LIGHTING (1ST)	800	15A	1	2	15A	640 SITE LIGHTING
EXTERIOR LIGHTING (1ST)	400	15A	3	4	15A	480 SITE LIGHTING
EXTERIOR LIGHTING (1ST)	600	15A	5	8	15A	SIGNAGE LIGHTING
SPARE						SPARE
		15A	9	10	15A	
		15A	11	12	15A	
		15A	13	14	15A	
		15A	15	16	15A	
		15A	17	18	15A	
			19	20		SPACE
			21	22		
			23	24		
			25	26		
			27	28		

United Engineering Inc.
Mechanical Electrical Consulting Engineers
3345 Reekle Street, Suite 105,
Toronto, Ontario, M3J 1M6
Tel: (416) 398 1999, Fax: (416) 398 1933

ELECTRICAL SITE PLAN			
PROPOSED RESIDENTIAL DEVELOPMENT 25 BAKER HILL BLVD.			
ROYAL PINE HOMES STOUFFVILLE, ONTARIO			
DRAWN	CM	CHECKED	MG
DATE	SEPT. 2015	PROJECT	14-016
		SCALE	1:200
		DRAWING	E-1
		OF	12