

COORDINATE SCHEDULING OF WORK WITH CIVIL DIVISION AND UTILITIES. COORDINATE WITH OWNER TO INITIATE POWER SHUTDOWN NOTICES AT APPROPRIATE STAGES OF CONSTRUCTION. DURING THE INITIAL STAGE OF CONSTRUCTION, REPOUTE THE EXISTING MAIN SECONDARY SERVICE CONDUCTORS FEEDING THE EXISTING WWTP TO THE NEW MAIN SERVICE ENTRANCE BREAKER LOCATION FOR THE PURPOSES OF PROVIDING A TEMPORARY POWER SOLUTION DURING CONSTRUCTION. REFER TO DRAWINGS E601 AND E602 FOR FURTHER DETAILS.

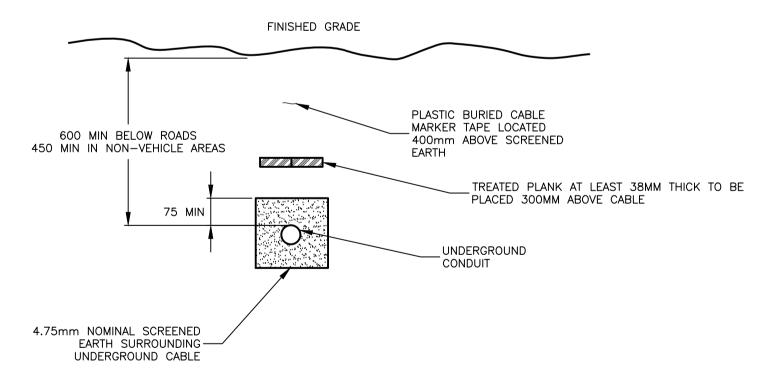
4. COORDINATE CONSTRUCTION STAGES WITH OWNER AND OTHER TRADES.

5. CLEARLY INDICATE ON AS-BUILT DWGS ROUTING OF ALL UNDERGROUND

6. LOCATION OF EXISTING BURIED SERVICES IS UNKNOWN. LOCATE, IDENTIFY AND PROTECT ALL EXISTING BURIED SERVICES IN THE AREA OF WORK. MINIMIZE CROSSOVERS AND INSTALL NEW CONDUITS AS PER C.E.C. RESTORE EXCAVATIONS TO ORIGINAL CONDITIONS SUBSEQUENT TO COMPLETION OF ELECTRICAL INSTALLATIONS DESCRIBED HEREIN.

	LIGHTING PLAN LEGEND	TELECOMMUNICATIONS LEGEND						
	SURFACE MOUNTED STRIP LUMINAIRE, 1219mm LONG	◄ #	■# WALL MOUNTED TELECOM OUTLET (# DENOTES NUMBER OF CABLES)					
0 0	SUSPENDED STRIP LUMINAIRE, 1219mm LONG	INTRUS	SION DETECTION/ACCESS CONTROL LEGEND					
	WALL MOUNTED STRIP LUMINAIRE, 1219mm LONG	K	SECURITY KEY PAD					
	SURFACE MOUNTED OR SUSPENDED LUMINAIRE, 152mm DIAMETER OR LARGER	 DP	DOOR POSITION SWITCH					
HX	WALL MOUNTED LUMINAIRE	<u>—</u>	WALL MOUNTED SECURITY MOTION DETECTOR					
⊢⊗↓	WALL MOUNTED EXIT SIGN (TEXT ON SHADED SIDES, ARROWS AS INDICATED)							
HPC	PHOTOCELL		CABLE TRAY LEGEND					
ю-	LINE VOLTAGE SWITCH (347V)		SINGLE TIER CABLE TRAY (WIDTH AND MOUNTING AS INDICATED)					
-6- 3	LINE VOLTAGE 3 WAY SWITCH (347V)		2-TIER CABLE TRAY (WIDTH AND MOUNTING AS INDICATED)					
169- 4	LINE VOLTAGE 4 WAY SWITCH (347V)		COLIEMATIC I ECEND					
	EMERGENCY LIGHTING BATTERY PACK (NO LAMPS)		SCHEMATIC LEGEND					
4_4	EMERGENCY LIGHTING BATTERY PACK C/W TWO LAMPS	<i>₽</i>	WEATHERHEAD					
44	WALL MOUNTED EMERGENCY LIGHTING REMOTE HEAD (# OF LAMPS AS SHOWN)	$\Diamond \Box$	MOTOR C/W DISCONNECT					
	POWER PLAN LEGEND	VFD	VARIABLE FREQUENCY DRIVE					
 	DUPLEX 5-15R RECEPTACLE							
₩GF	DUPLEX 5-15R GROUND FAULT PROTECTED RECEPTACLE		GENERATOR					
•	DEVICE MOUNTED ABOVE MILLWORK COUNTERTOP	\bigcirc	GENERATOR					
J	CEILING MOUNTED JUNCTION BOX	uw m	TRANSFORMER					
₩P	MANUAL MOTOR PROTECTION SWITCH	$\overline{\mathbb{W}}$	CURRENT TRANSFORMER					
	LOAD RATED DISCONNECT	(M)	METER					
⊠⊤	MAGNETIC STARTER C/W DISCONNECT	$\overline{\hat{}}$	BREAKER					
Ó	COMBINATION MAGNETIC STARTER AND DISCONNECT	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	SWITCH					
oo• HOA	HAND-OFF-AUTO SWITCH							
H	WALL MOUNTED JUNCTION BOX	PNL	PANEL					
	CABLE TRAY							
_	POWER PANELBOARD		ABBREVIATIONS					
	SPECIAL PANEL (TYPE AS IDENTIFIED)	AFF	ABOVE FINISHED FLOOR					
	FIRE ALARM LEGEND	AFG	ABOVE FINISHED GRADE					
F	FIRE ALARM MANUAL STATION	BFP	BELT FILTER PRESS					
FACP	FIRE ALARM CONTROL PANEL	BRKR	BREAKER					
FAA	FIRE ALARM ANNUNCIATOR	CCT	CIRCUIT					
	ELECTRONIC HORN/STROBE	DAF	DISSOLVED AIR FLOATATION					
(b)	RATE OF RISE HEAT DETECTOR	DWG	DRAWING					
 	FIXED TEMPERATURE HEAT DETECTOR (TEMPERATURE AS NOTED)	FEW	FILTERED EFFLUENT WATER					
② S	SMOKE DETECTOR	LTG	LIGHTING					
(2)DS	DUCT TYPE SMOKE DETECTOR	MDP	MAIN DISTRIBUTION BOARD					
RFA	POWER SHUTDOWN RELAY	MGB	MAIN GROUND BUSBAR					
MM	MONITORING MODULE	PNL	PANEL					
ISO	ISOLATION MODULES	REC	RECEPTACLE					
EOL	END OF LINE RESISTOR	SPD	SURGE PROTECTIVE DEVICE					
		MTGB	MAIN TELECOM GROUND BUSBAR					
		TWAS	THICKENED WASTE ACTIVATED SLUDGE					
		\M/\M/TD	WASTEWATED TREATMENT DIANT					

WWTP WASTEWATER TREATMENT PLANT

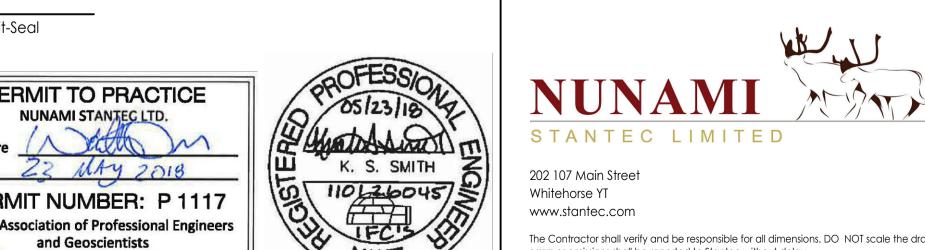


. IF TREATED PLANKS ARE USED FOR MECHANICAL PROTECTION, MINIMUM BURIAL DEPTHS CAN BE REDUCED BY 150MM. OTHERWISE, MINIMUM BURIAL DEPTHS ARE 600MM OR 450MM AS INDICATED. 2. CONTRACTOR TO REINSTATE SURFACES TO PRIOR CONDITIONS.

CONDUCTOR BURIAL DETAIL

Client/Project

File Name:



PERMIT NUMBER: P 1117

NT/NU Association of Professional Engineers

and Geoscientists

110126045

Whitehorse YT

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ELECTRICAL LEGEND AND SITE PLAN E de IQALUIT WASTEWATER TREATMENT PLANT Project No. Scale UPGRADE/EXPANSION AS SHOWN 110126045 City of Iqaluit, Nunavut Drawing No. Sheet Revision KG KSS KSS 18.05.23

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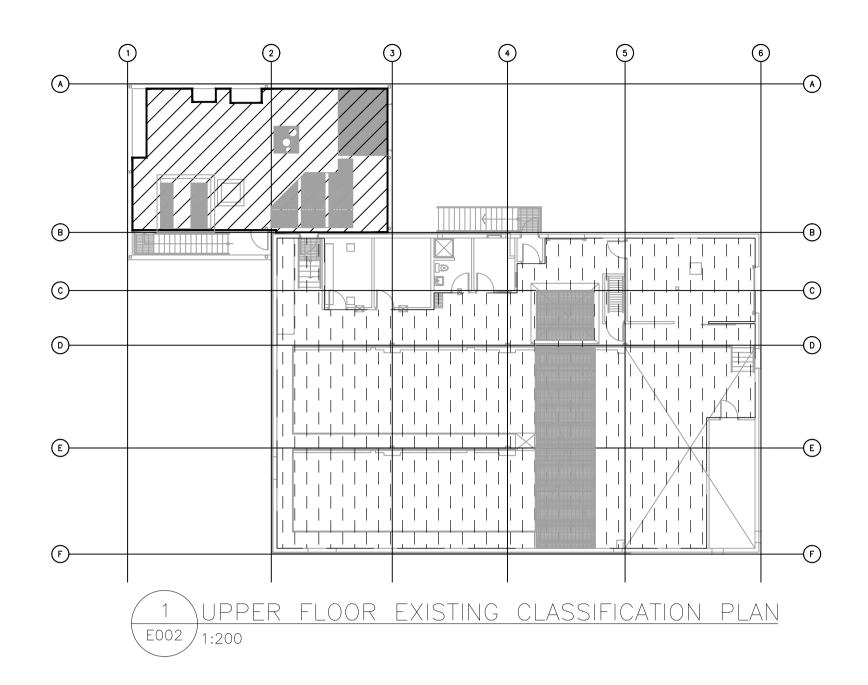
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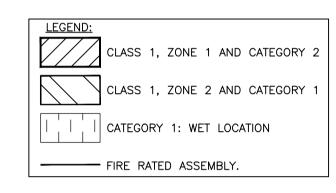
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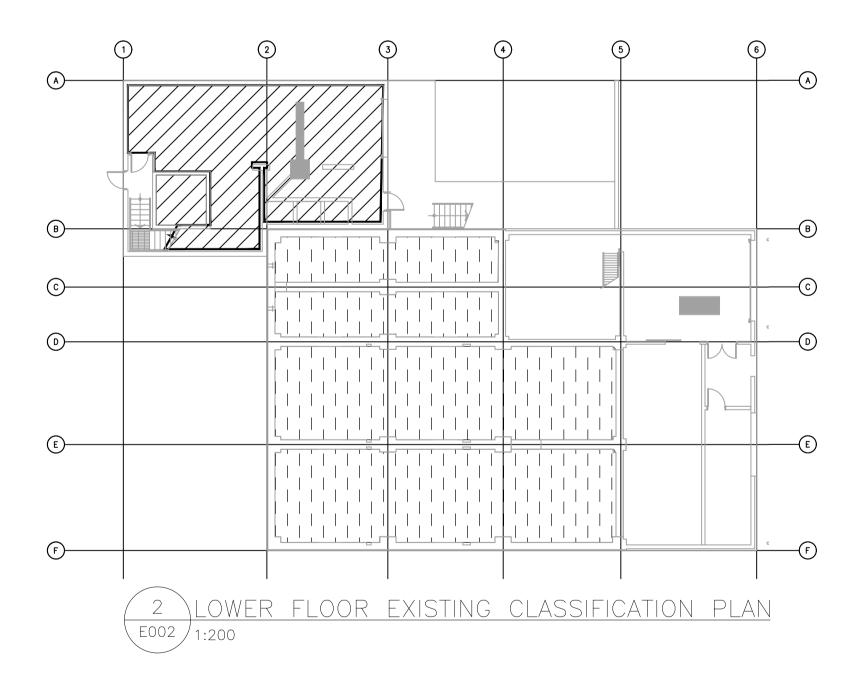
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General Notes

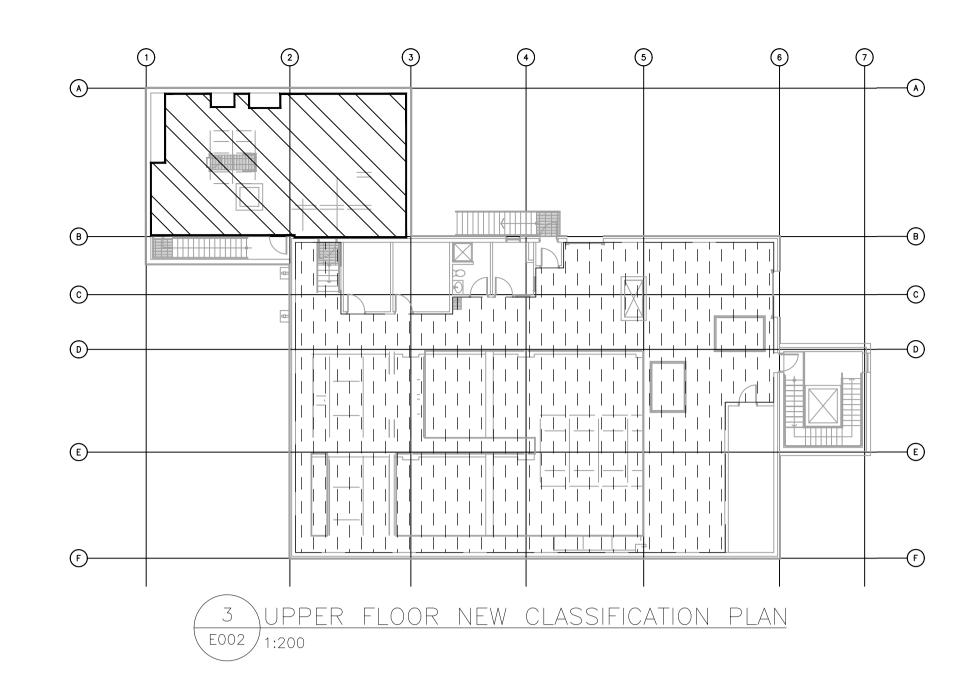
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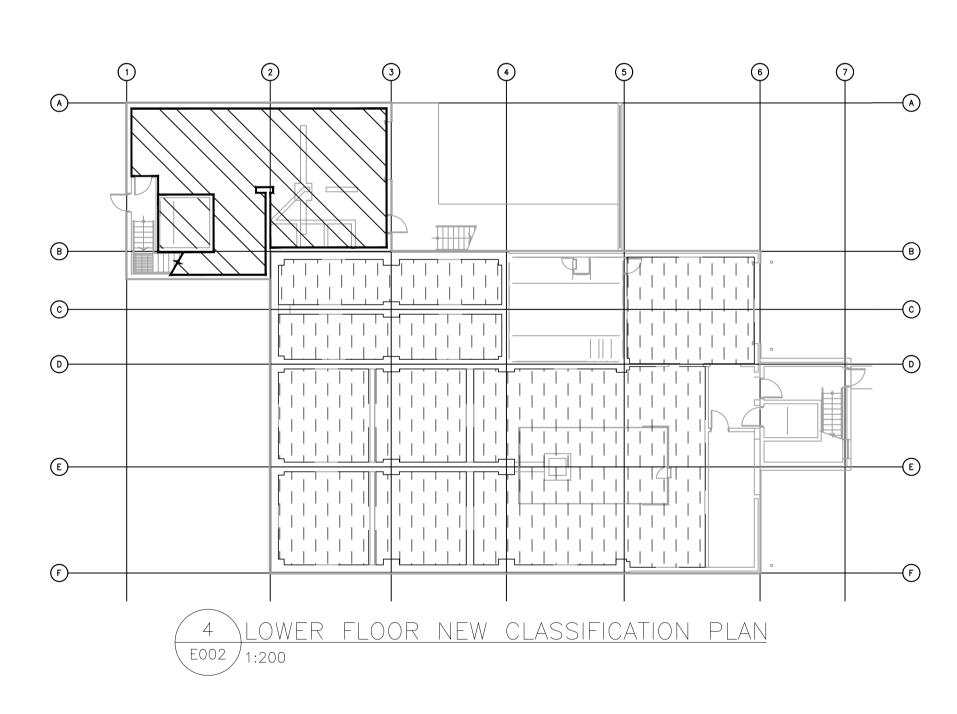
REFER TO CEC RULE 18-154 FOR HAZARDOUS SEALING REQUIREMENTS BETWEEN ZONE 2 AND NON-HAZARDOUS LOCATIONS. ENSURE CABLE INSTALLATIONS ARE FULLY SEALED AGAINST VAPOUR MIGRATION. APPROPRIATE SEALING CHARACTERISTICS MAY BE ACHIEVED BY DIFFERENT MEANS; THEREFORE MANUFACTURER'S INSTRUCTIONS SHALL BE FOLLOWED.

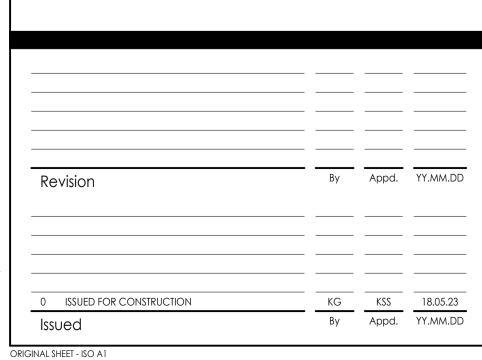
2. REFER TO CEC SECTION 22 FOR RULES RELATING TO CATEGORY 1 AND CATEGORY 2 LOCATIONS AND RULES SPECIFICALLY RELATED TO SEWAGE TREATMENT FACILITIES. REFER TO CEC SECTION 18 FOR RULES RELATING TO HAZARDOUS LOCATIONS.

KEY NOTES - APPLICABLE TO NEW WORK:

- ELECTRICAL INSTALLATIONS IN THE EXISTING HEADWORKS (UPPER AND LOWER LEVELS)
 SHALL MEET REQUIREMENTS FOR CLASS 1, ZONE 2 AREAS AS REQUIRED BY SECTION 18
 AND SECTION 20 OF THE CANADIAN ELECTRICAL CODE. PROVIDE TECK90 C/W SEALS,
 ALUMINUM BOXES, FITTINGS, AND EQUIPMENT APPROVED FOR INSTALLATION IN SUCH
 AREAS. ALL EQUIPMENT WIRING, FITTINGS, DEVICES AND TERMINATIONS MUST BE EXPLOSION
- ELECTRICAL INSTALLATIONS IN THE SECONDARY TREATMENT AREAS (UPPER AND LOWER LEVELS) SHALL MEET REQUIREMENTS FOR CATEGORY 1 AREAS AS REQUIRED BY SECTION 22 OF THE CANADIAN ELECTRICAL CODE. PROVIDE TECK90, NEMA 3R WEATHERPROOF ENCLOSURES AND EQUIPMENT APPROVED FOR USE IN SUCH AREAS.
- (3) IF ANY INSTALLATIONS REMAINING IN THE EXISTING HEADWORKS DO NOT CURRENTLY COMPLY WITH THE REQUIREMENTS OF KEYNOTE 1, NOTIFY ENGINEER PRIOR TO COMMENCEMENT OF WORK.







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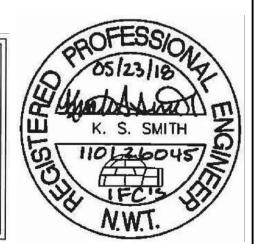
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NUNAMI STANTEC LTD.

Signature
Date 22 M4 2 2 18

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Client/Project

Iqaluit

A'b_A'

IQALUIT WASTEWATER TREATMENT PLANT UPGRADE/EXPANSION

City of Iqaluit, Nunavut

 File Name:
 KG
 KSS
 KSS
 18.05.23

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CLASSIFICATION PLANS

Project No.
110126045

AS SHOWN

Drawing No.

Sheet

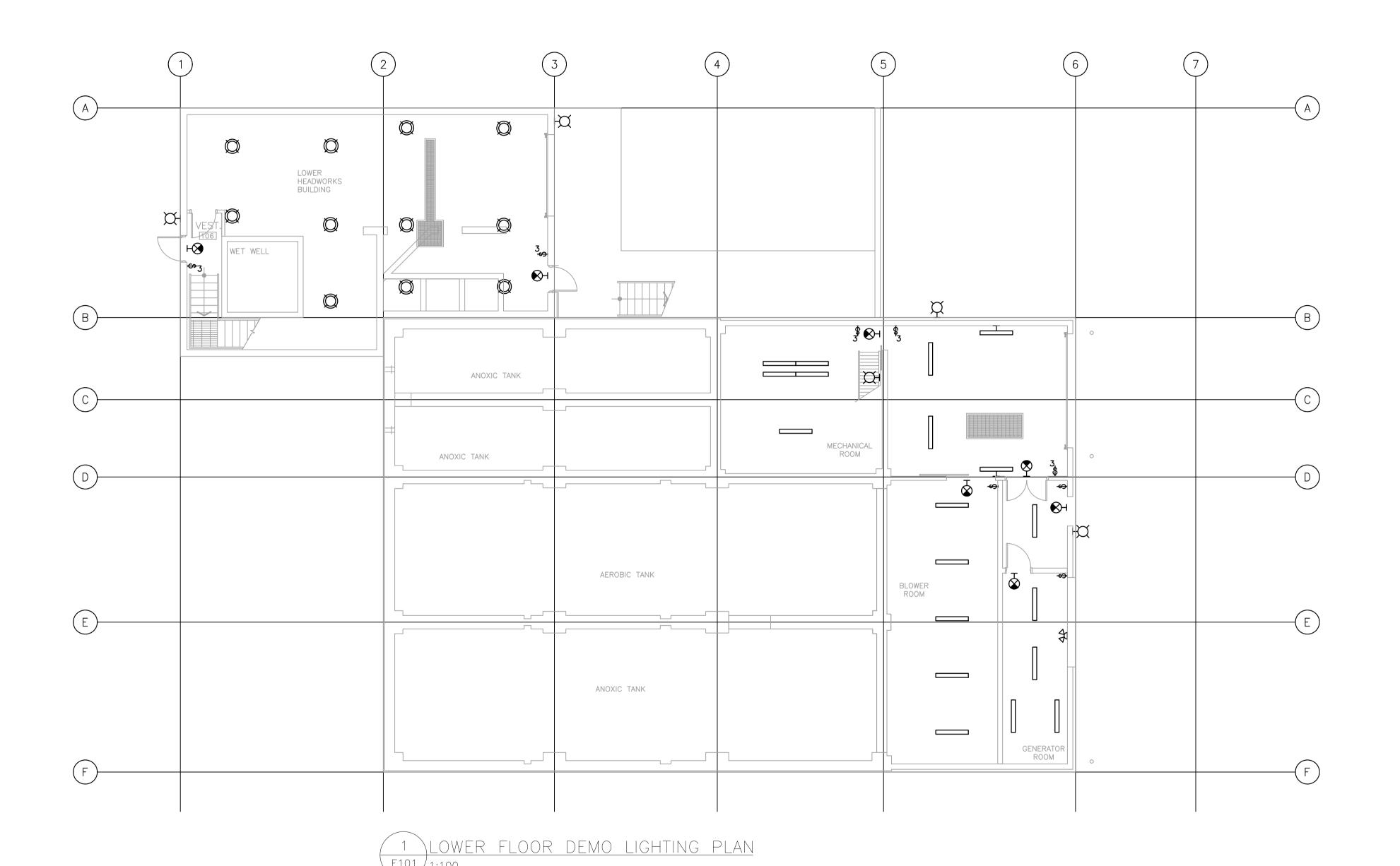
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KEY NOTES - APPLICABLE TO ALL DRAWINGS:

- THE FOLLOWING IS INDICATED BY THE DESCRIPTORS BELOW:

 'E' EXISTING TO REMAIN

 WHERE NO DESCRIPTOR HAS BEEN INDICATED, DEVICE IS TO BE REMOVED

 (DEMO PLANS) OR PROVIDED (NEW PLANS). ALL DEVICES THAT ARE

 REMOVED AND NOT REUSED ARE TO BE DISPOSED OF AS PER DIVISION 1

 REQUIREMENTS.
- INFORMATION PRESENTED ON DEMO DRAWINGS AND EXISTING DETAILS IS AS PER EXISTING DRAWINGS AND VISUAL REVIEW OF SITE CONDITIONS. CONFIRM ON SITE AND INFORM ENGINEER OF ANY DISCREPANCIES PRIOR TO COMMENCEMENT OF WORK.
- DURING THE TENDER PERIOD AND PRIOR TO BID CLOSING, REVIEW THE CONSTRUCTION STAGING PLAN AND COORDINATE WITH OTHER TRADES THE SCHEDULING OF THE WORK. WWTP TO REMAIN OPERATIONAL DURING CONSTRUCTION.
- UNLESS OTHERWISE NOTED, FOR ALL DEVICES DESIGNATED FOR REMOVAL, DISCONNECT FROM POWER SUPPLIES, REMOVE ALL CONDUIT AND WIRING BACK TO SOURCE. DISPOSE OF WIRE AND CONDUIT AS PER DIVISION 1 REQUIREMENTS. BURIED CABLES AND CONDUITS TO BE CUT OFF AT FLOOR OR GROUND LEVEL.
- WHERE EXISTING DEVICES AND EQUIPMENT ARE TO REMAIN, EXISTING
 FEEDERS, CONDUIT, FITTINGS, BOXES TO BE REMOVED AND REPLACED WITH
 NEW TO SUIT AREA CLASSIFICATIONS AS PER DWG E002. PRIOR TO
 REMOVAL, RETAIN ELECTRICAL SERVICES TO EXISTING DEVICES AND
 EQUIPMENT UNTIL THE NEW WWTP IS FULLY OPERATIONAL. MINIMIZE
 INTERRUPTIONS TO ON—GOING FACILITY OPERATIONS WHEN SCHEDULING THE
 WORK.
- 6 IN ADDITION TO NEW PANELS, PROVIDE TYPEWRITTEN PANEL SCHEDULES FOR ALL EXISTING PANELS AFFECTED DURING RENOVATION. TRACE EXISTING CIRCUIT FOR PANELS '2B' AND '6B' AND FULLY UPDATE PANEL SCHEDULES BY PROVIDING NEW
- NEW EMERGENCY LIGHTING AC CIRCUITS TO BE CIRCUITED TO NORMAL LIGHTING CIRCUIT OF AREA SERVED AS PER C.E.C. REQUIREMENTS. EMERGENCY LIGHTING BATTERY PACKS ARE TO BE CONNECTED TO THE LIGHTING CIRCUITS IN THE SAME AREA AS IS SERVED BY THE PACKS SUCH THAT IF NORMAL LIGHTING IN THE AREA FAILS, THE ASSOCIATED EMERGENCY LIGHTING BATTERY PACK(S) WILL COME 'ON'. CIRCUITING TO COMPLY WITH CEC REQUIREMENTS REGARDLESS OF EXISTING CONDITIONS.
- COORDINATE REMOVAL OF BUILDING MECHANICAL AND PROCESS EQUIPMENT WITH RESPECTIVE DIVISIONS ON SITE.
- ALL ABANDONED EQUIPMENT TO BE REMOVED. EQUIPMENT TO BE DISCONNECTED FROM POWER SUPPLIES, CONDUCTORS, AND CONDUITS REMOVED. CABLES/CONDUIT BURIED IN CONCRETE TO BE CUT OFF AT FLOOR LEVEL WHERE ABANDONED AND CAPPED OFF.

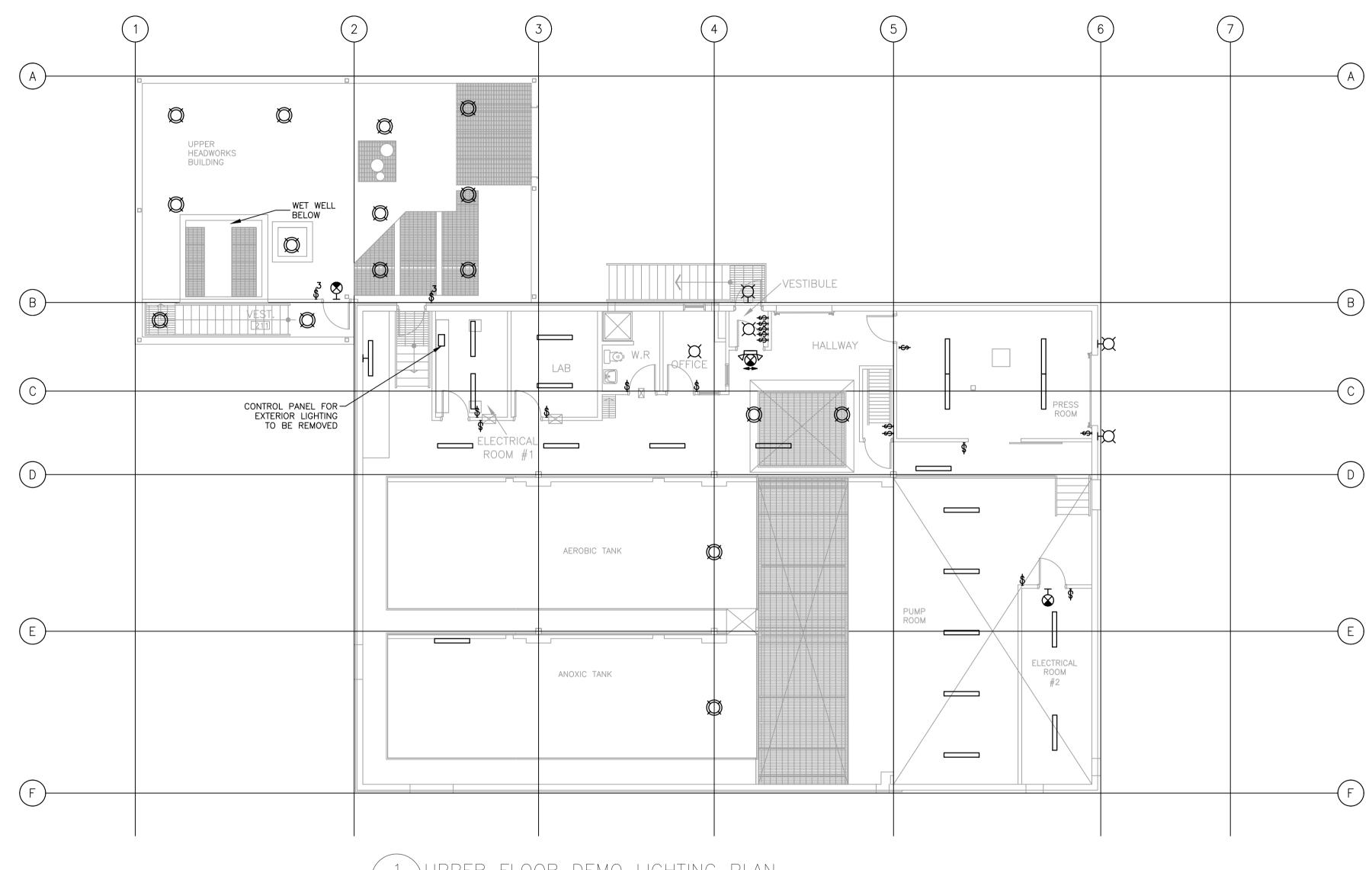
Permit-Seal Client/Project General Notes LOWER FLOOR DEMO LIGHTING PLAN PERMIT TO PRACTICE NUNAMI STANTEG LTD. Revision STANTEC LIMITED **IQALUIT WASTEWATER TREATMENT PLANT** 22 MAY 2018 Project No. Scale 202 107 Main Street UPGRADE/EXPANSION AS SHOWN 110126045 Whitehorse YT PERMIT NUMBER: P 1117 www.stantec.com City of Iqaluit, Nunavut NT/NU Association of Professional Engineers and Geoscientists
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1 UPPER FLOOR DEMO LIGHTING PLAN

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IQALUIT WASTEWATER TREATMENT PLANT

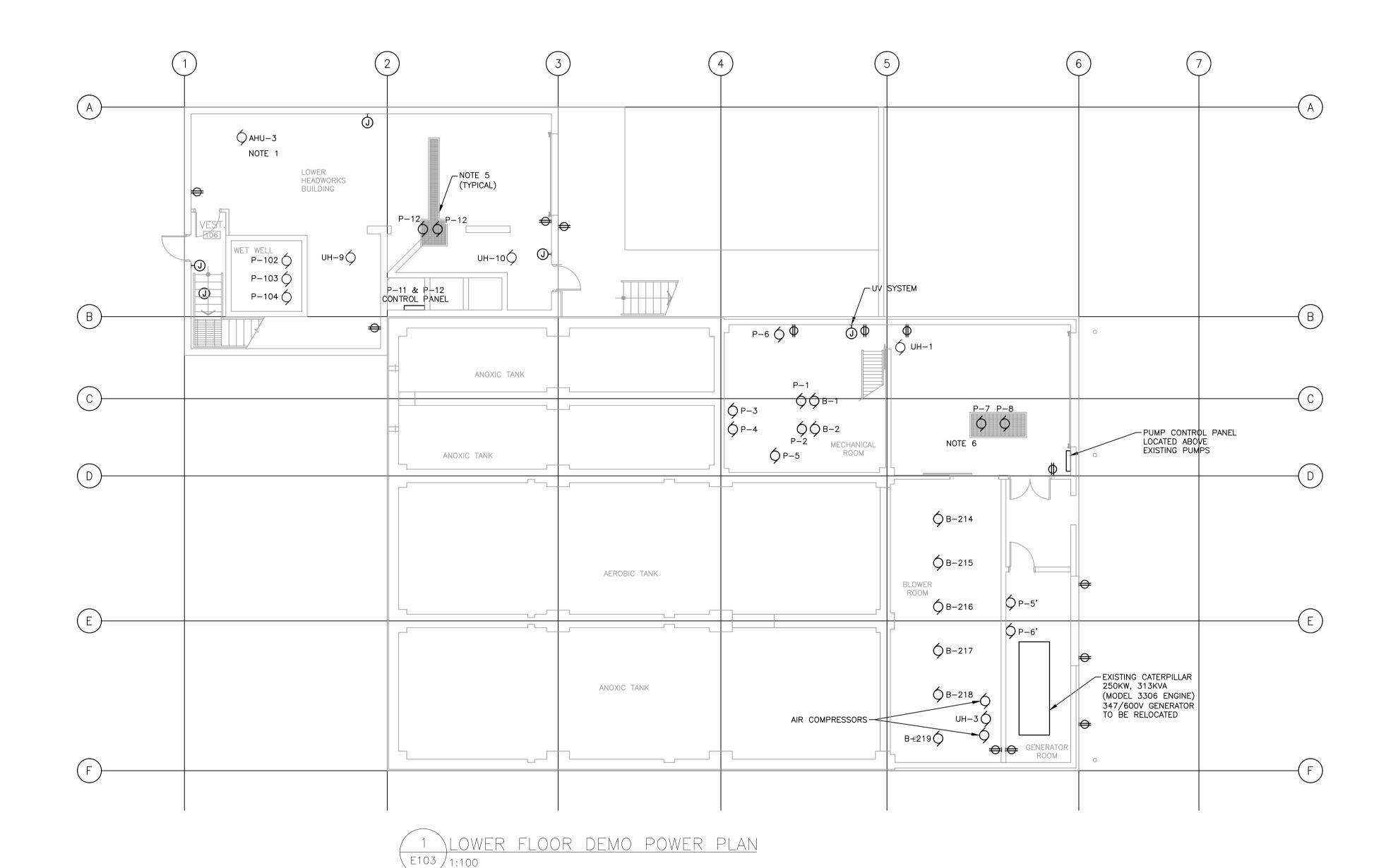
Scale Project No. AS SHOWN 110126045 Drawing No. Revision E102 4 of 23 0

UPPER FLOOR DEMO LIGHTING PLAN

- . EXISTING AHU-3 TO REMAIN. NEW UPSIZED FAN MOTORS BEING SUPPLIED BY MECHANICAL DIVISION. REFER TO MOTOR, CONTROL AND EQUIPMENT LIST.
- 2. EXISTING GENERATOR TO BE RELOCATED TO FACILITATE INSTALLATION OF MBBR/DAF UNITS. COORDINATE WITH OWNER TO PLAN GENERATOR RELOCATION AND UNAVAILABILITY OF STANDBY
- 3. RELOCATE EXISTING GENERATOR CONTROL PANEL, BATTERY CHARGER, BLOCK HEATER AND OTHER COMPONENTS OF EXISTING GENSET.
- 4. EXISTING GENERATOR MAY BE RELOCATED TO SLUDGE TRAILER 105 DURING STAGE 2 CONSTRUCTION'S 4 MONTH SHUTDOWN PERIOD AND USED AS A STANDBY POWER SOURCE DURING CONSTRUCTION. REFER TO SPECIFICATIONS SECTION 01 11 14 WORK SEQUENCE FOR
- 5. BUILDING MECHANICAL AND PROCESS MOTOR ID'S PROVIDED INDICATE EXISTING NOMENCLATURE. PROVIDED TO ASSIST IN THE COORDINATION OF DEMOLITION WORK ON SITE.
- 6. LOCATION OF TEMPORARY ELECTRICAL DISTRIBUTION AND RELOCATED EXISTING GENERATOR, IF SO DETERMINED BY THE CONTRACTOR. COORDINATE WITH OTHER TRADES AND THE OWNER IN REGARDS TO REMOVAL OF EXISTING EQUIPMENT AND STORED MATERIAL TO READY THE ROOM.







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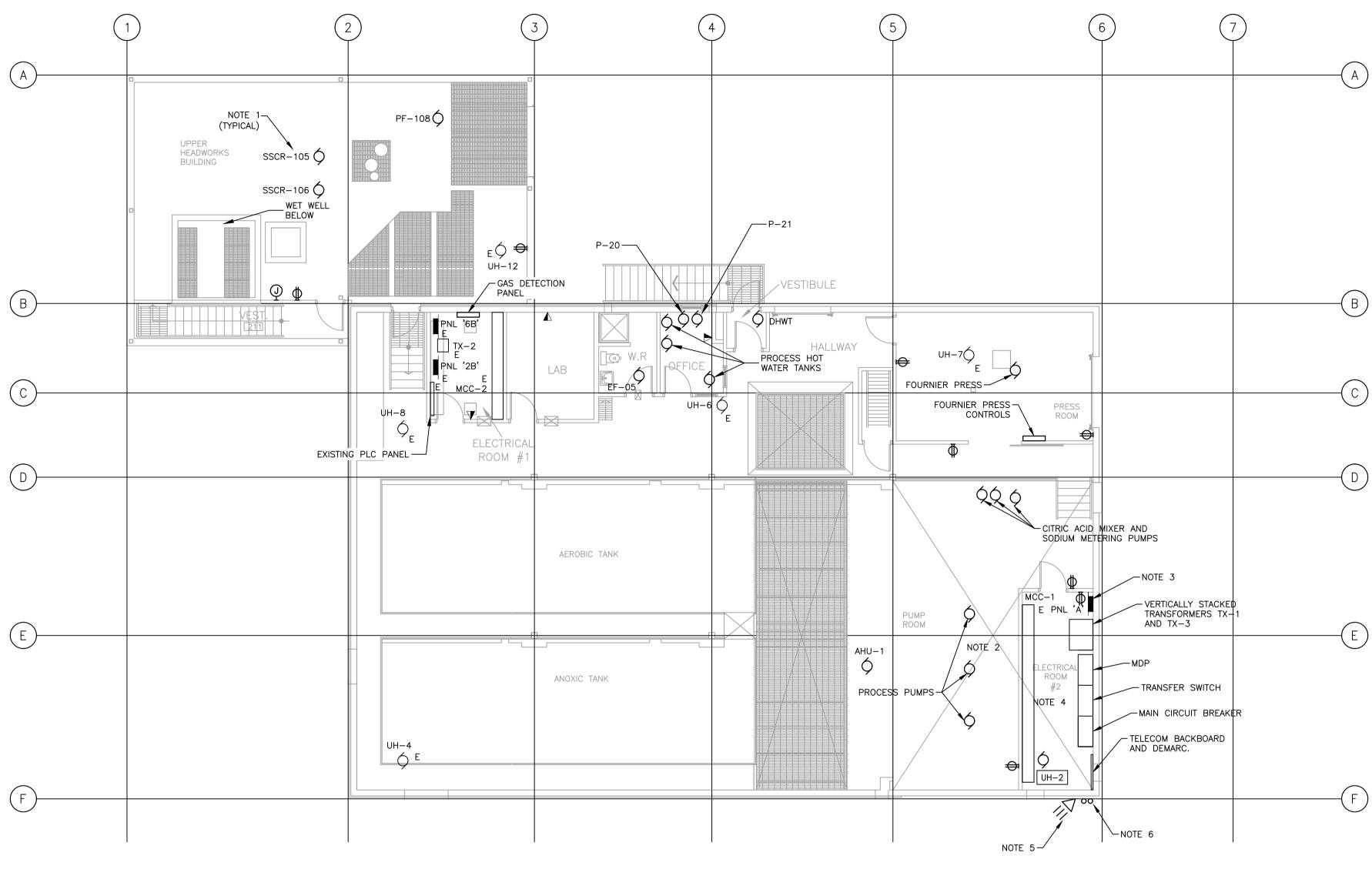
City of Iqaluit, Nunavut

LOWER FLOOR DEMO POWER PLAN

Scale Project No. AS SHOWN 110126045 Drawing No. Revision E103 5 of 23 0







JPPER FLOOR DEMO POWER AND LOW TENSION PLAN

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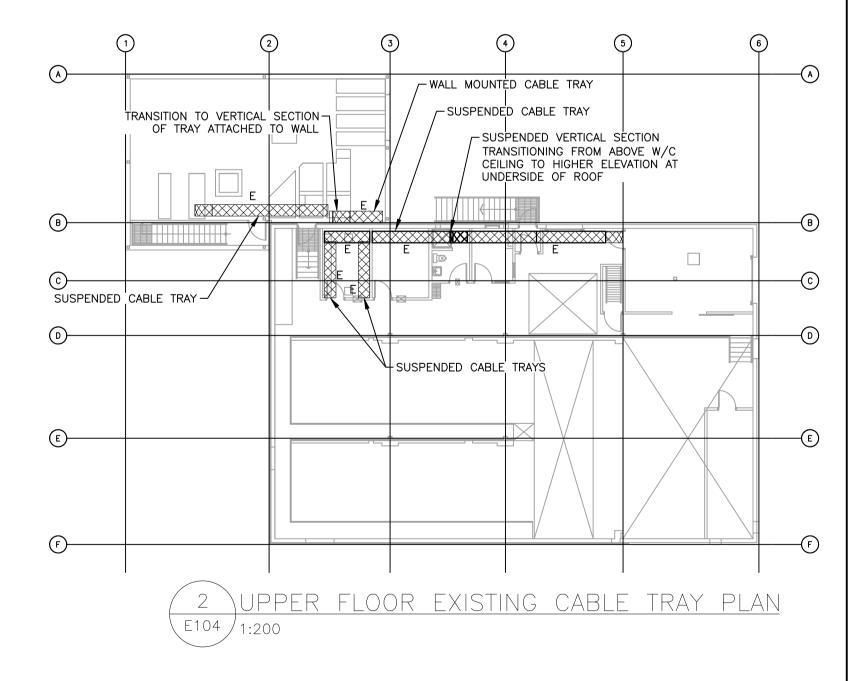
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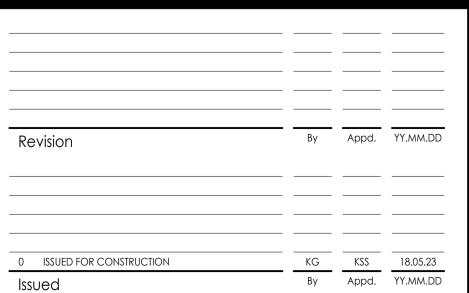
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NOTES:

- BUILDING MECHANICAL AND PROCESS MOTOR ID'S PROVIDED INDICATE EXISTING NOMENCLATURE. PROVIDED TO ASSIST IN THE COORDINATION OF DEMOLITION WORK ON SITE.
- 2. EXISTING MCC-1 TO BE REMOVED DURING STAGE 2 OF CONSTRUCTION. MCC-1 TO BE STORED SECURELY DURING CONSTRUCTION AND REINSTALLED AFTER THE NEW ELECTRICAL ROOM IS CONSTRUCTED. REFER TO THE STRUCTURAL AND ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION. MCC-1 TO BE RECOMMISSIONED DURING THE LATER STAGES OF CONSTRUCTION
- 3. EXISTING LOADS FED BY PANEL A SHALL BE RE-CIRCUITED TO NEW TEMPORARY PANEL 2T PRIOR TO REMOVAL OF PANEL A. PROVIDE NEW PANEL AND RUN CONDUCTORS TO EQUIPMENT AND DEVICES, SCHEDULING THE WORK TO MINIMIZE DOWNTIME. REFER TO DWG E105 FOR
- 4. EXISTING ELECTRICAL DISTRIBUTION EQUIPMENT IN ELECTRICAL ROOM 202 TO BE REMOVED DURING STAGE 2 OF CONSTRUCTION. REMOVE EQUIPMENT ONLY AFTER NEW TEMPORARY DISTRIBUTION EQUIPMENT HAS BEEN PROVIDED IN SLUDGE TRAILER ROOM 105 AND IS
- 5. EXISTING TELECOMMUNICATION SERVICE ENTRANCE TO BE REMOVED. NEW TELECOMMUNICATION SERVICES TO BE IN PLACE PRIOR TO DISCONNECTION OF EXISTING.
- 6. EXISTING ELECTRICAL SERVICE CONDUIT ROUTED VERTICALLY ON BUILDING EXTERIOR FROM BELOW GRADE TO SECOND FLOOR ELECTRICAL ROOM 202 TO BE RELOCATED TO NEW TEMPORARY ELECTRICAL SERVICE ENTRANCE LOCATION. COORDINATE DISRUPTION OF SERVICES WITH OWNER. INSTALLATIONS TO BE PROVIDED AND STAGED SUCH THAT DOWNTIME IS MINIMIZED.

General Notes





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K. S. SMITH 110126045 NT/NU Association of Professional Engineers



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Client/Project C. C.

IQALUIT WASTEWATER TREATMENT PLANT UPGRADE/EXPANSION

City of Iqaluit, Nunavut

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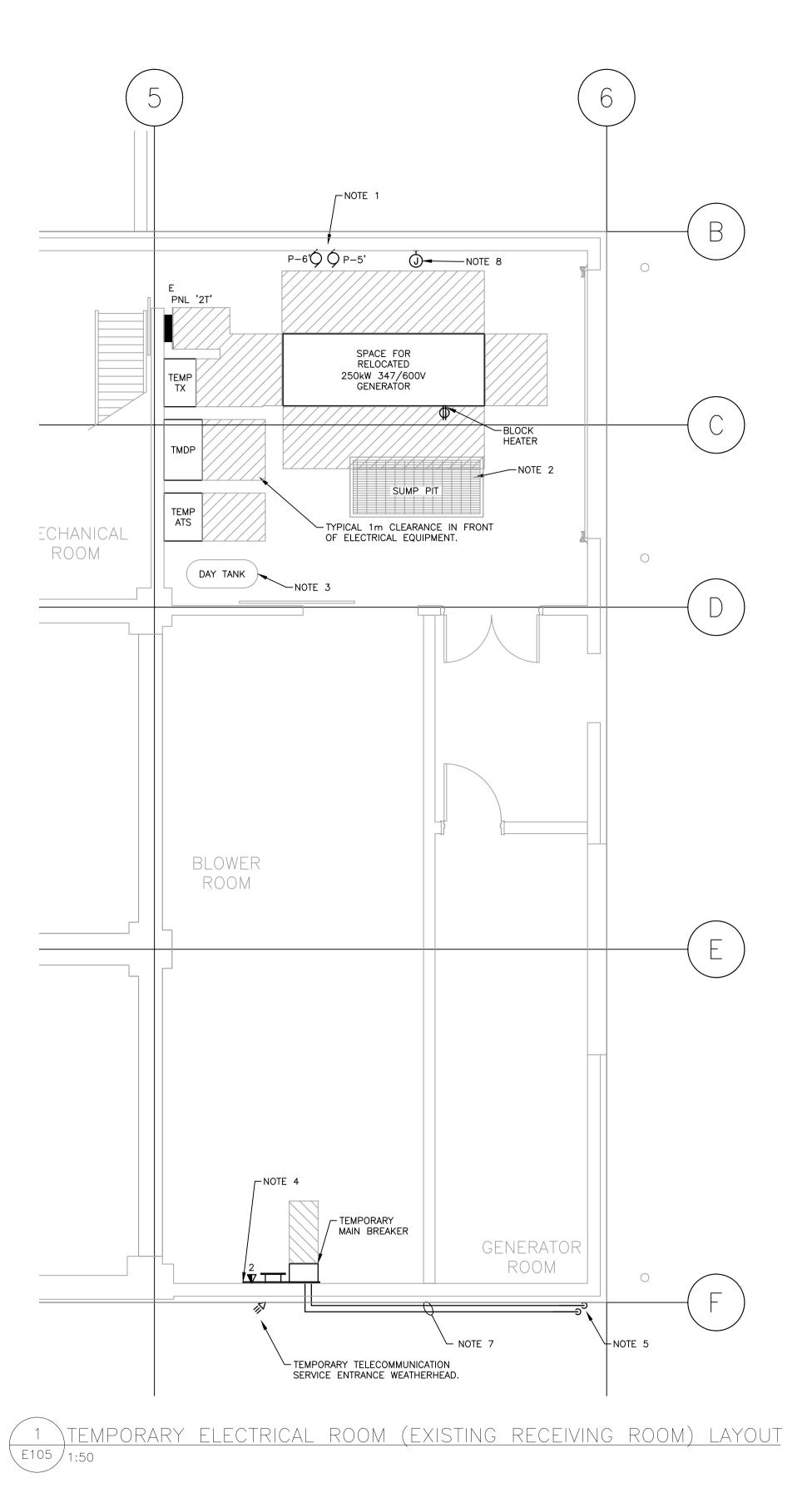
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UPPER FLOOR DEMO POWER, CABLE TRAY AND LOW TENSION PLAN

Project No. 110126045	Scale AS SHOWN	
Drawing No.	Sheet	Revision
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OPEN DOORNAY
PANEL '2T'
OPEN DOORNAY
PANEL '2T'
OPEN DOORNAY
PANEL '2T'
OPEN DOORNAY
PANEL '2T'
NTO DISTRING
BOILER ROOM

TEMP-AT'S
400A

TEMP-TX

HOUSEKEEPING PAD

2 TEMPORARY ELECTRICAL ROOM (EXISTING RECEIVING ROOM) NORTH ELEVATION (E105) 1:25

NOTES

- 1. RELOCATED EXISTING FUEL PUMPS TO BE LATER REPLACED WITH NEW FUEL PUMPS (P-4.1, P-4.2) IN THE SAME LOCATION. COORDINATE SEQUENCING OF WORK WITH MECHANICAL PUMPS OF MALE PUMPS OF MAL
- 2. EXISTING SUMP PIT C/W REMOVABLE GRATE COVER.
- NEW TEMPORARY DAY TANK PROVIDED BY MECHANICAL DIVISION. WHERE EXISTING GENERATOR IS USED DURING CONSTRUCTION.
- 4. PROVIDE 1200mm X 2400mm G1S PLYWOOD BACKBOARD COATED WITH FIRE RETARDANT PAINT FOR MOUNTING OF NEW TEMPORARY MAIN BREAKER AND TEMPORARY DEMARCATION OF TELECOMMUNICATION SERVICES.
- 5. EXISTING BURIED ELECTRICAL SERVICE IS ROUTED FROM PAD MOUNTED TRANSFORMER UNDERGROUND TO BUILDING EXTERIOR AT GRIDLINE 6. SERVICE CONDUIT IS RUN VERTICALLY ON BUILDING EXTERIOR TO EXISTING SECOND FLOOR ELECTRICAL ROOM 202. REFER TO DETAILS 01/E001 AND 01/E104 FOR APPROXIMATE LOCATIONS.
- 6. PROVIDE NEW TEMPORARY ELECTRICAL DISTRIBUTION AND NEW MAIN BREAKER PRIOR TO RELOCATION OF ELECTRICAL SERVICE ENTRANCE TO MINIMIZE DOWNTIME. COORDINATE WITH LOCAL UTILITY AND ENSURE PROVISION OF UTILITY METER WHEN NEEDED.
- 7. ROUTE NEW SERVICE ENTRANCE CONDUIT HORIZONTALLY ON BUILDING EXTERIOR FROM EXISTING LOCATION TO NEW UTILITY METER/MAIN BREAKER. PROVIDE INSTALLATIONS AND STAGE WORK TO MINIMIZE DOWNTIME. COORDINATE WITH THE OWNER WHEN SCHEDULING INTERRUPTION OF
- 8. EXISTING BATTERY CHARGER MAY BE USED DURING CONSTRUCTION IF CONTRACTOR'S METHODS AND MEANS INCLUDES USING THE EXISTING GENERATOR. PROVIDE STEEL CHECKER PLATE TO COVER CABLES RUNNING FROM BATTERY CHARGER TO GENERATOR.

Revision

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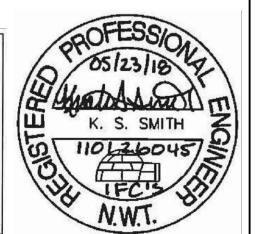
General Notes

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Date 22 My 2018
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City of Iqaluit, Nunavut

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TEMPORARY ELECTRICAL ROOM LAYOUT AND ELEVATION

Project No.
110126045

Drawing No.

E105

Scale
AS SHOWN

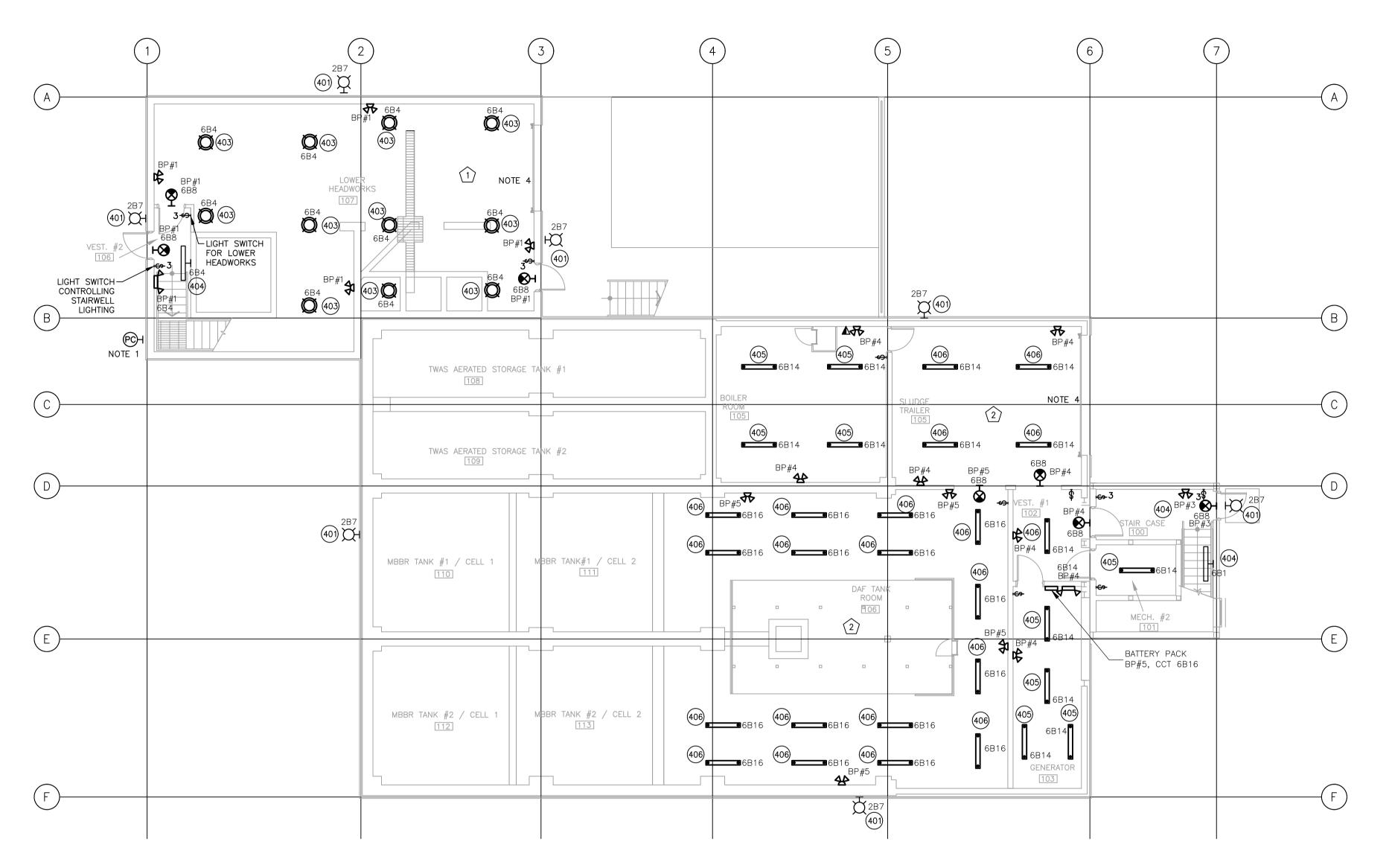
Revision

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LUMINAIRE SCHEDULE

MINIMUM 4700 LUMEN, 5000K, SURFACE MOUNTED EXTERIOR LED LIGHT LUMINAIRE. C/W HIGH IMPACT, VANDAL RESISTANT, DIE-CAST ALUMINUM HOUSING, FULL CUTOFF TYPE IV DISTRIBUTION OPTICS, BLACK FINISH, 120V STANDARD DRIVER, 60000 HOUR RATED LIFESPAN, RATED FOR MINIMUM -40°C. TO BE MCGRAW-EDISON ISS, HUBBELL QSP, OR PHILIPS 106L.

MINIMUM 11000 LUMEN, 5000K WALL MOUNTED ADJUSTABLE LED FLOODLIGHT LUMINAIRE. C/W CLASS 1 ZONE 2 HAZARDOUS RATING, DAMP LOCATION RATING, WIDE BEAM (7x6) OPTICS. 347V STANDARD DRIVER. TO BE NEMALUX RS-WF OR CROUSE-HINDS FMV-76 OR APPROVED EQUIVALENT.

MINIMUM 5000 LUMEN, 5000K PENDANT MOUNTED LED LUMINAIRE. C/W CLASS 1 ZONE 2 HAZARDOUS RATING, DAMP LOCATION RATING, 347V STANDARD DRIVER AND WIDE TYPE 5 OPTICS. TO BE CROUSE-HINDS VMV-5L OR NEMALUX MR6 OR APPROVED EQUAL.

1219mm LONG, MINIMUM 5500 LUMEN, 5000K, LED WALL MOUNTED LUMINAIRE. C/W DAMP RATING, FULLY FROSTED LENS, WIREGUARD, 347V STANDARD DRIVER. TO BE METALUX 4SNLED-LW AND WG/SNR-4FT OR PHILIPS DAY-BRITE LF4FR AND LF4WGW OR PEERLESS NSL-RA-WG.

1219mm LONG, MINIMUM 5500 LUMEN, 5000K, SUSPENDED LED LUMINAIRE. C/W DAMP RATING, FULLY FROSTED LENS, WIREGUARD, 347V STANDARD DRIVER. TO BE METALUX 4SNLED-LW AND WG/SNR-4FT OR PHILIPS DAY-BRITE LF4FR AND LF4WGW OR PEERLESS NSL-RA-WG.

1219mm LONG, MINIMUM 6300 LUMEN, SUSPENDED LED LUMINAIRE. C/W ENCLOSED AND GASKETED HOUSING, WET LOCATION RATING, WIDE OPTICS, 347V STANDARD DRIVER. TO BE PHILIPS V2W, HOLOPHANE EVT4 OR LSI EGW.

	EMERGENCY BATTE	RY PACK SCHEDULE	
PACK	AREA BEING SERVED	LOCATION OF BATTERY PACK	POWER (WATTS)
BP#1	LOWER HEADWORKS	VESTIBULE #2	144
BP#2	UPPER HEADWORKS	VESTIBULE #4	144
BP#3	ELECTRICAL ROOM 202, STAIR CASE	ELECTRICAL ROOM 202	144
BP#4	BOILER, TRAILER SLUDGE, GENERATOR ROOMS	GENERATOR ROOM	350
BP#5	DISSOLVED AIR FLOATATION TANKS	GENERATOR ROOM	144
BP#6	ELECTRICAL ROOM 209	ELECTRICAL ROOM 209	144
BP#7	UPPER FLOOR AREA	ELECTRICAL ROOM 209	144

EMERGENCY LIGHTING NOTES:

- SIZING IS BASED ON A PARTICULAR MANUFACTURER AT 24V WITH 6 WATT MR16 LED LAMPS AND A 5W ALLOWANCE FOR EACH EXIT LIGHT.
- 2. BATTERY PACKS INDICATED TO BE MINIMUM ALLOWABLE SIZE.
- . ENSURE BATTERY PACK SIZED TO LAST 30 MINUTES AS PER NBCC EXCEPT FOR BATTERY PACK IN GENERATOR ROOM WHICH IS TO LAST 2 HOURS.
- 4. IN ANY AREAS SERVED BY EMERGENCY LIGHTING: EMERGENCY LIGHTING SHALL TURN ON UPON FAILURE OF POWER SUPPLY TO NORMAL LIGHTING AS PER CEC 46-304.4.

1. MOUNT PHOTOCELL MINIMUM 3000mm A.F.G. AND AWAY FROM ARTIFICIAL SOURCES OF LIGHT.

- 2. MOUNT FIXTURES SO AS TO AVOID ANY PIPES, DUCTS, CABLE TRAYS AND EQUIPMENT. COORDINATE WITH OTHER TRADES ON SITE AND LOCATE FIXTURES ACCORDINGLY.
- 3. MOUNT ALL SUSPENDED LUMINAIRES AT 3000mm AFF UNLESS NOTED OTHERWISE. COORDINATE WITH OTHER
- TRADES FOR REQUIRED HEADSPACE CLEARANCES.
- . MOUNT LIGHT FIXTURES SO AS TO AVOID INTERFERENCE WITH OVERHEAD DOOR. COORDINATE WITH ARCHITECTURAL DIVISION.

LOWER FLOOR NEW LIGHTING PLAN

General Notes Permit-Seal PERMIT TO PRACTICE NUNAMI STANTEG LTD. Appd. YY.MM.DD Revision 22 MAY 2018 PERMIT NUMBER: P 1117 NT/NU Association of Professional Engineers KG KSS 18.05.23 and Geoscientists 0 ISSUED FOR CONSTRUCTION # 110126045 By Appd. YY.MM.DD



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IQALUIT WASTEWATER TREATMENT PLANT UPGRADE/EXPANSION

City of Iqaluit, Nunavut

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LOWER FLOOR NEW LIGHTING PLAN

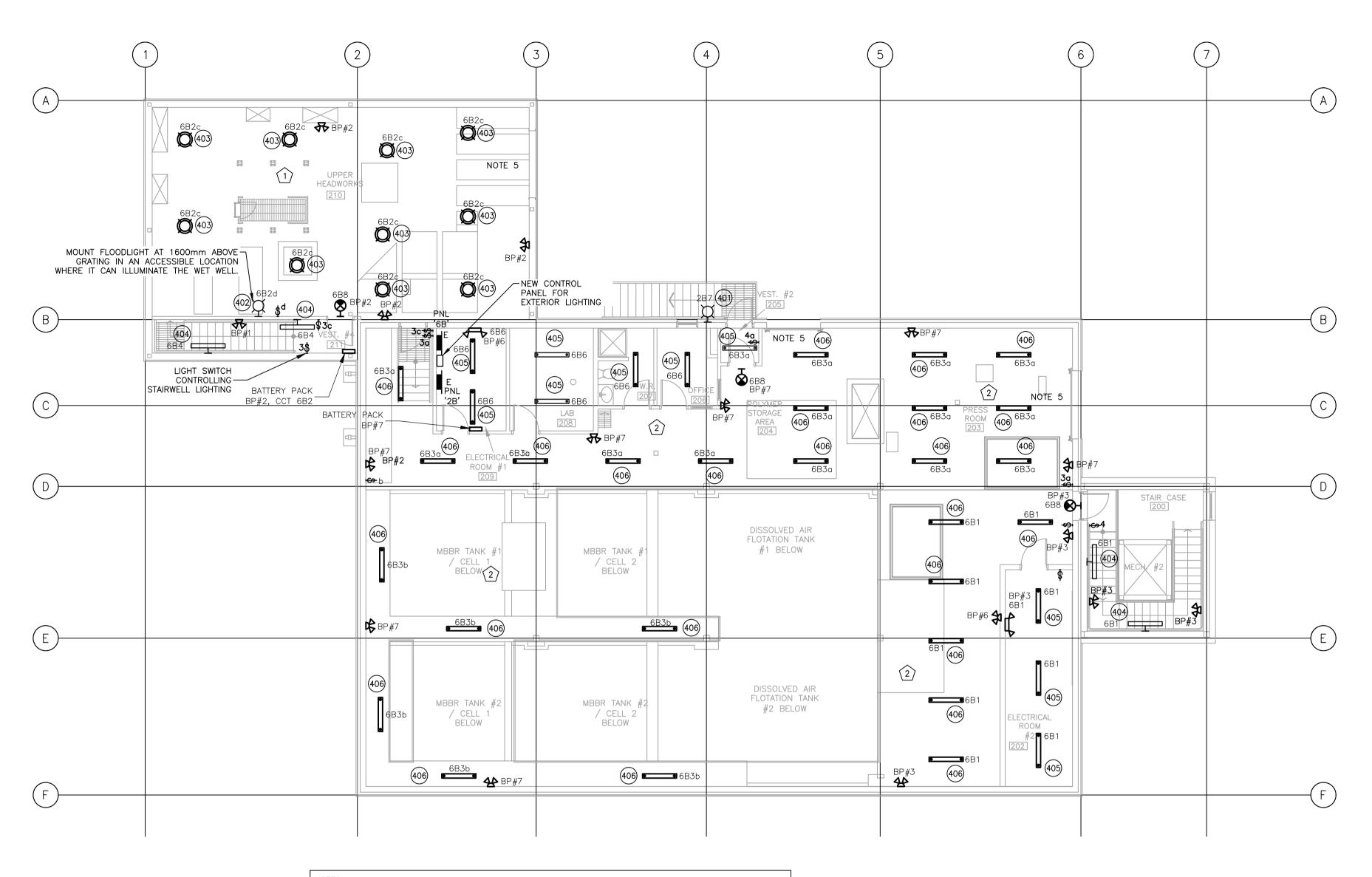
Scale Project No. AS SHOWN 110126045 Drawing No. Revision Sheet E201 8 of 23 0

ORIGINAL SHEET - ISO A1

Issued







NOTES:

 NEW LIGHTING IN ELECTRICAL ROOM 209, EXISTING LAB 208, EXISTING W/C 207, EXISTING OFFICE 206 AND VESTIBULE #2 IS A 1:1 REPLACEMENT. EXISTING SWITCHING AND CIRCUITING NOT SHOWN AND TO REMAIN AS IS.

- 2. REFER TO DWG E201 FOR EMERGENCY BATTERY PACK SCHEDULE.
- 3. MOUNT ALL SUSPENDED LUMINAIRES AT 3000mm ABOVE FINISHED FLOOR OR GRATING.
- 4. NEW SUSPENDED LIGHTING IN THE EXISTING UPPER FLOOR HEADWORKS IS A 1:1 REPLACEMENT. NEW SWITCHING AS INDICATED.
- 5. MOUNT LIGHT FIXTURES SO AS TO AVOID INTERFERENCE WITH OVERHEAD DOOR. COORDINATE WITH ARCHITECTURAL DIVISION.

1 UPPER FLOOR NEW LIGHTING PLAN
E202 1:100

Permit-Seal Client/Project General Notes UPPER FLOOR NEW LIGHTING PLAN PERMIT TO PRACTICE E de NUNAMI STANTEC LTD. Revision Appd. YY.MM.DD STANTEC LIMITED IQALUIT WASTEWATER TREATMENT PLANT 22 MAY 2018 Project No. Scale 202 107 Main Street UPGRADE/EXPANSION AS SHOWN 110126045 Whitehorse YT PERMIT NUMBER: P 1117 www.stantec.com City of Iqaluit, Nunavut NT/NU Association of Professional Engineers Drawing No. Sheet Revision and Geoscientists # 110126045 The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any
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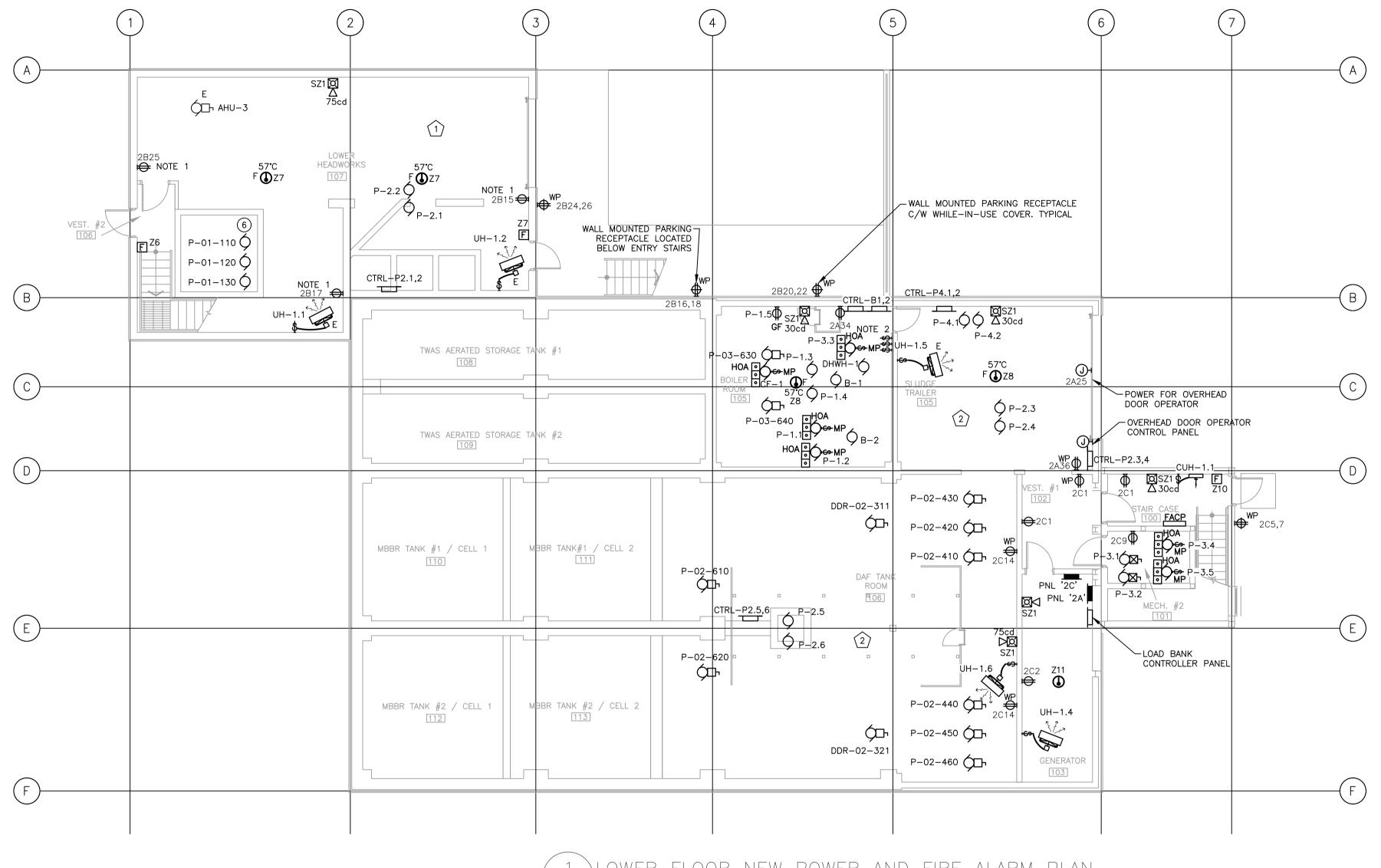
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 0 ISSUED FOR CONSTRUCTION errors or omissions shall be reported to Stantec without delay. File Name: E202 The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden. 9 of 23 0 Issued ORIGINAL SHEET - ISO A1

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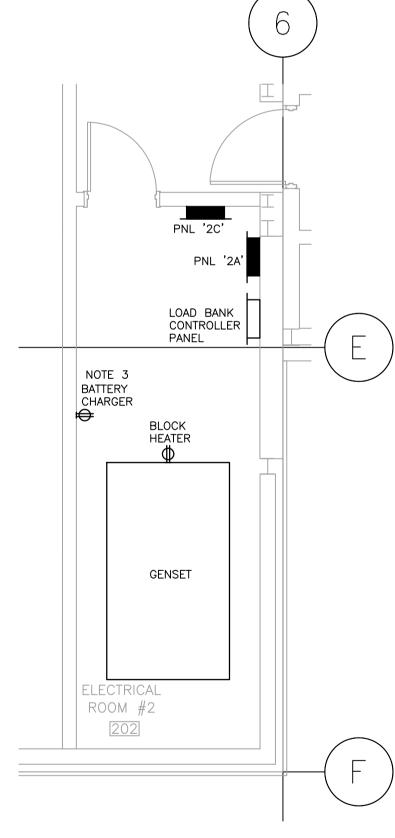


1 LOWER FLOOR NEW POWER AND FIRE ALARM PLAN
E203 / 1:100

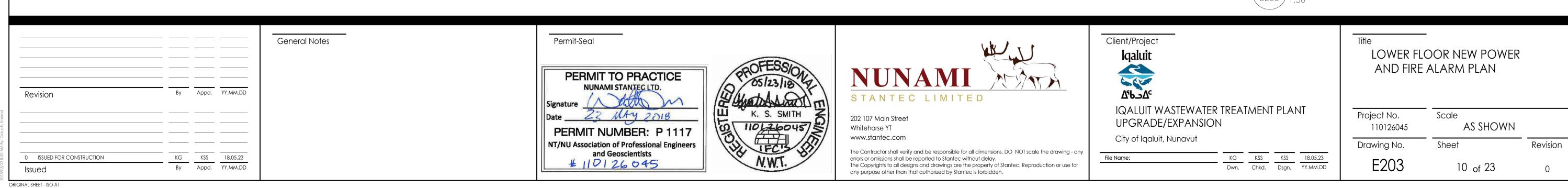
- KEY NOTES DWGS E203-E204:
- 1) FIRE ALARM SIGNAL DEVICES TO BE RATED 15cd UNLESS OTHERWISE INDICATED.
- (2) REFER TO DWG EXXX FOR FIRE ALARM SCHEDULE AND RISER DIAGRAM.
- REFER TO DRAWING E501 FOR MCC ELEVATIONS AND DRAWINGS E601, E602 AND E603 FOR SINGLE LINE DIAGRAMS. REFER TO DWG E204 FOR LOCATIONS OF MCC'S ON UPPER FLOOR.
- COORDINATE ACTUAL LOCATION OF PROCESS AND BUILDING MECHANICAL EQUIPMENT WITH RESPECTIVE DIVISIONS ON SITE. CONFIRM REQUIREMENTS OF INSTALLATION WITH EACH DIVISION PRIOR TO COMMENCEMENT OF WORK.
- 5 NEW OVERHEAD DOORS AND DOOR OPERATORS SUPPLIED BY DIVISION 8.
 OPERATOR MOTOR AND CONTROL PANEL TO BE INSTALLED BY DIVISION 26.
 COORDINATE WITH DIVISION 8 ON SITE.
- ALL DISCONNECTS, FEEDERS, FITTINGS, BOXES, SEALS FOR NEW RAW
 WASTEWATER PUMPS (P-01-110, P-01-120, P-01-130) TO BE RATED FOR ZONE 1, GROUP D HAZARDOUS LOCATION. PUMPS TO REMAIN OPERATIONAL IN THE EVENT OF VENTILATION FAILURE AND RESULTING CHANGE IN HAZARDOUS LOCATION CLASSIFICATION.
- 7 PROVIDE GROUND FAULT RECEPTACLES WHERE REQUIRED BY C.E.C. EVEN WHERE NOT SPECIFICALLY CALLED FOR HEREIN.

NOTES

- 1. EXISTING RECEPTACLE TO BE REPLACED WITH NEW. REUSE EXISTING CIRCUIT.
- 2. PROVIDE BOILER AND DOMESTIC HOT WATER HEATER DISCONNECT SWITCHES AT 1500mm A.F.F. SWITCHES TO HAVE RED COVER PLATE WITH WHITE LETTERING READING "EMERGENCY DISCONNECT". LABEL SWITCHES "B-1", "B-2" AND "DHWH" TO ASSOCIATE SWITCH WITH CORRESPONDING OIL-FIRES APPLIANCE.
- 3. PROVIDE STEEL CHECKER PLATE TO COVER CABLES RUNNING FROM BATTERY CHARGER TO GENERATOR.



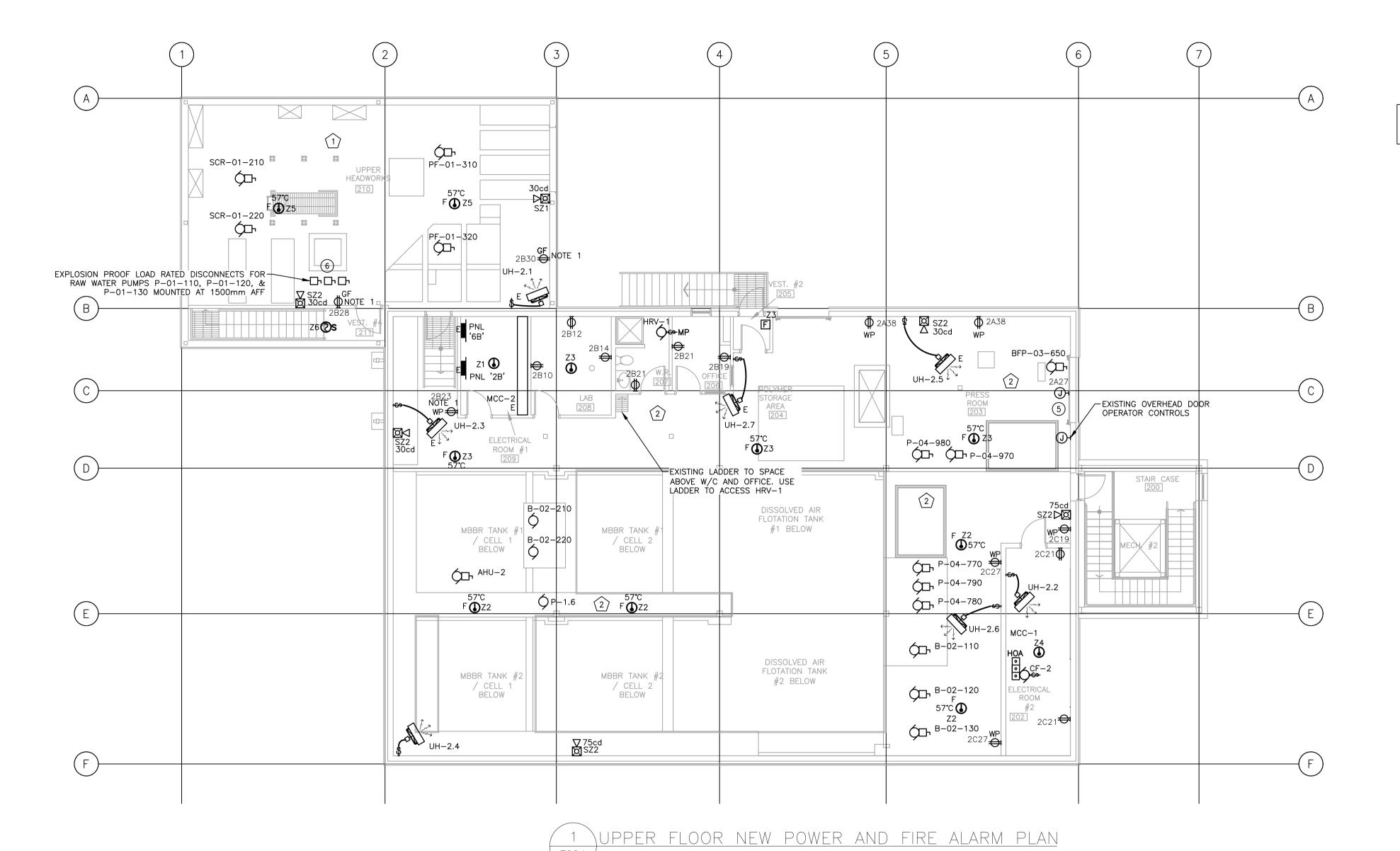
2 GENERATOR ROOM LAYOUT E203 1:50



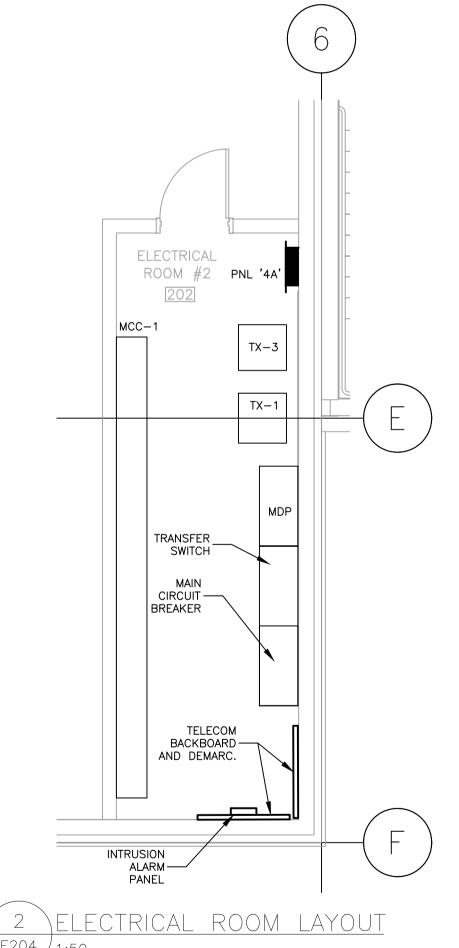
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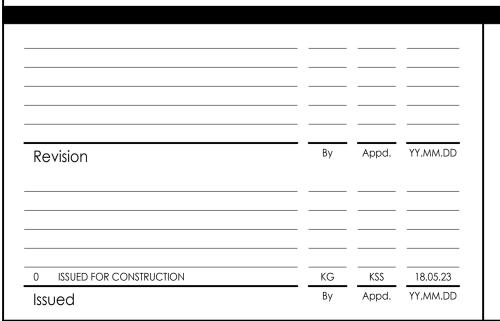






1. EXISTING RECEPTACLE TO BE REPLACED WITH NEW. REUSE EXISTING CIRCUIT.

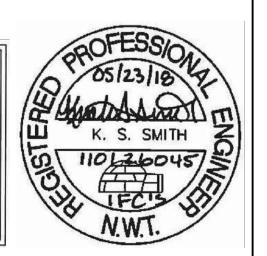




General Notes

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IQALUIT WASTEWATER TREATMENT PLANT UPGRADE/EXPANSION

City of Iqaluit, Nunavut

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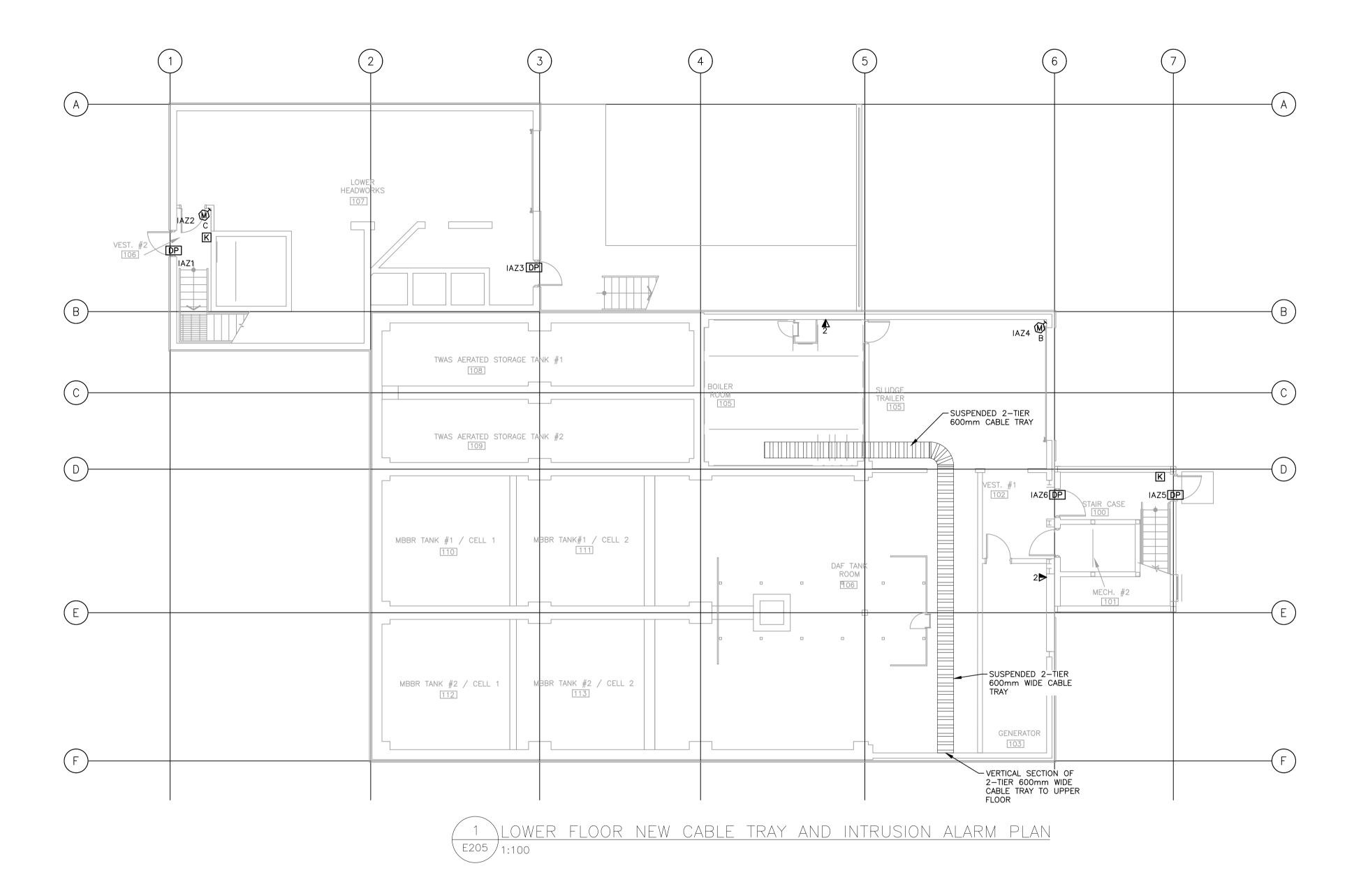
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UPPER FLOOR NEW POWER AND FIRE ALARM PLAN

Scale Project No. **AS SHOWN** 110126045 Drawing No. Sheet Revision E204 11 of 23 0



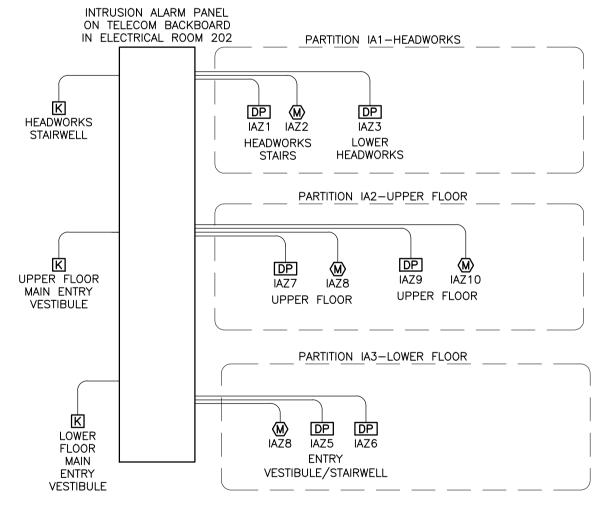




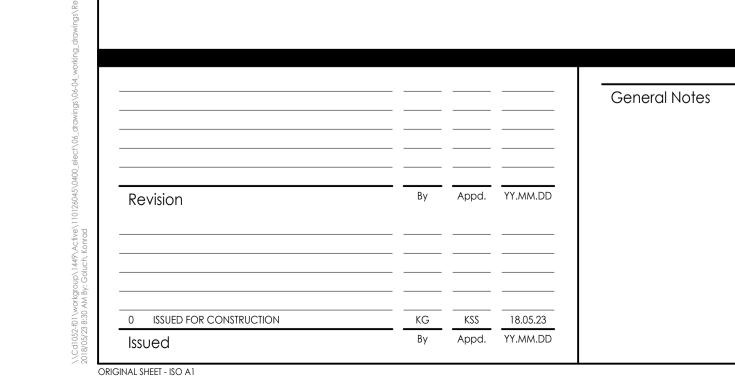
KEY NOTES - DWGS E205-E206

- (1) CABLE TRAY ROUTING AND MOUNTING TO BE COORDINATED WITH OTHER TRADES ON SITE. DETERMINE CABLE TRAY LOCATIONS THAT SUIT FEEDER ROUTING TO EQUIPMENT. TRAY TO BE SECURED TO BUILDING STRUCTURE. INSTALL AS PER C.E.C. SECTION 12.
- 2 LOW TENSION AND CONTROL CABLES TO BE RUN IN CONDUIT IN SERVICE SPACES. CONTRACTOR IS EXPECTED TO REROUTE EXISTING CABLES OF DIFFERENT VOLTAGE CLASSES THAT ARE CURRENTLY RUN
- 3 LETTERS ADJACENT TO INTRUSION ALARM MOTION DETECTORS INDICATE THE FOLLOWING: C - CURTAIN TYPE B - BROAD TYPE
- 4 FOR EACH INTRUSION ALARM DEVICE AND KEYPAD SHOWN, PROVIDE SEPARATE WIRING HOME RUN TO INTRUSION ALARM CONTROL PANEL IN ELECTRICAL ROOM 209. EACH DEVICE SHALL BE A SEPARATE
- (5) COORDINATE INSTALLATION OF DOOR CONTACTS WITH DOOR FRAME PROVIDER.
- 6 TECK CABLE DROP TO EQUIPMENT MAY BE ACCOMPLISHED USING VERTICAL CABLE TRAY SECTIONS OR BY PROVISION OF UNISTRUT CHANNELS AND BRACKETS. SUPPORT VERTICAL CABLES EVERY 1000mm.
- 7) PROVIDE BOND WIRE ALONG THE ENTIRE SECTION OF CABLE TRAY USING #6 AWG COPPER AND BOND TO THE TRAY AT EACH SECTION USING COMPRESSION FITTINGS APPROVED FOR THE PURPOSE. CONDUCTORS TO BE TIED TO MGB.
- 8 PROVIDE ULC-APPROVED FIRE STOPPING FOR CABLE TRAYS WHERE FIRE SEPARATIONS AT FLOORS OR WALLS ARE PENETRATED. COORDINATE WITH ARCHITECTURAL DIVISION TO CONFIRM LOCATIONS OF FIRE
- (9) AS-BUILTS TO REFLECT ACTUAL CABLE TRAY INSTALLATION.

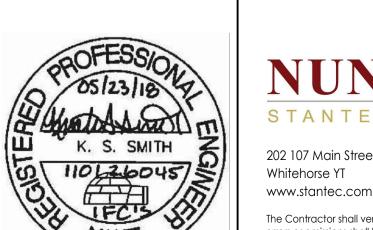
11	NTRUSION ALARM SCHEDULE			
PARTITION	LOCATION	ZONES		
IA1	HEADWORKS	IAZ1-IAZ3		
IA2	UPPER FLOOR	IAZ7-IAZ10		
IA3	LOWER FLOOR	IAZ5-IAZ6		



INTRUSION ALARM SYSTEM DIAGRAM E205 N.T.S.



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City of Iqaluit, Nunavut

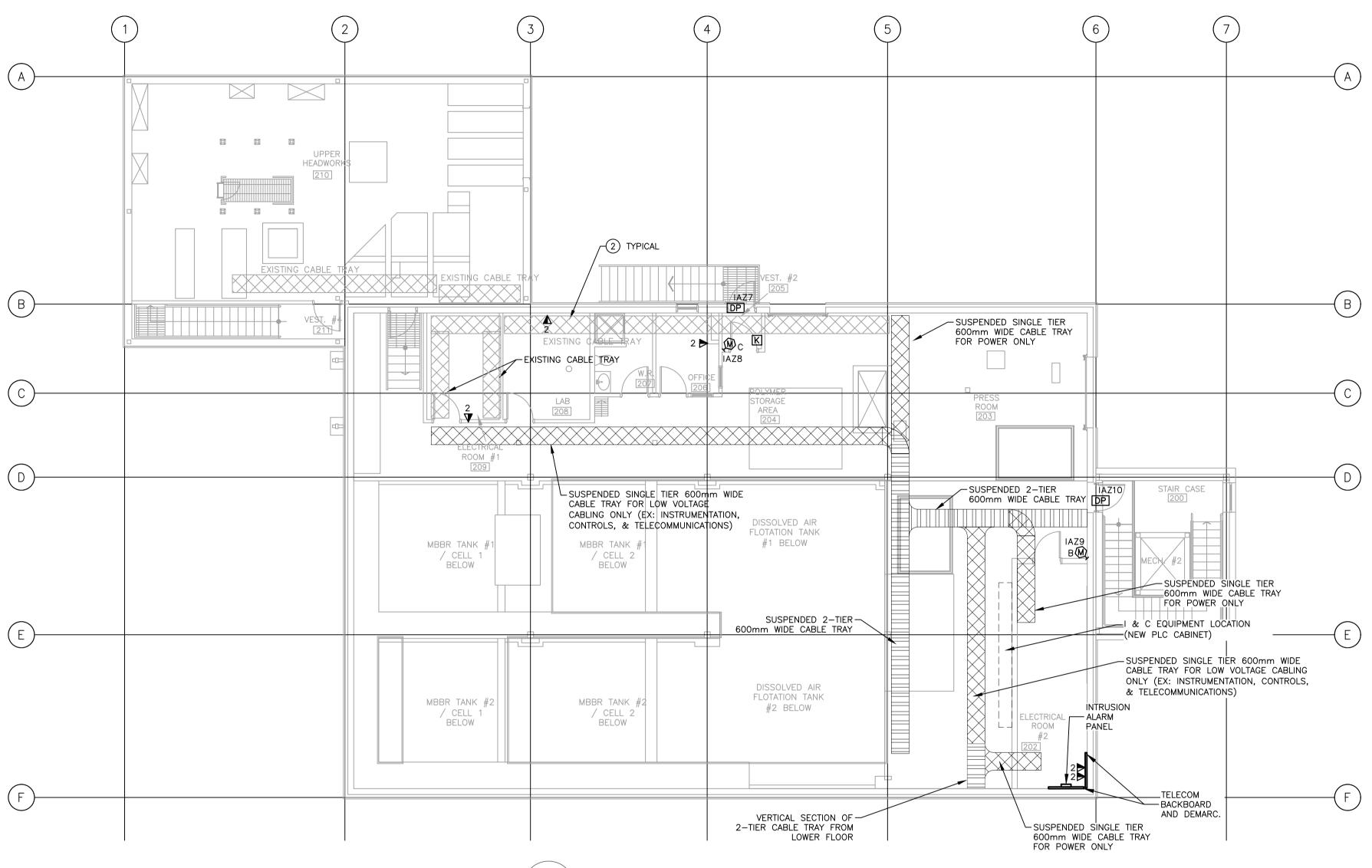
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 LOWER FLOOR NEW CABLE TRAY AND INTRUSION ALARM PLAN

Project No. Scale AS SHOWN 110126045 Revision Drawing No. Sheet E205 12 of 23 0





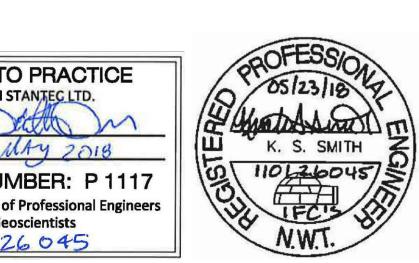


UPPER FLOOR NEW CABLE TRAY AND INTRUSION ALARM PLAN

ORIGINAL SHEET - ISO A1

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IQALUIT WASTEWAT

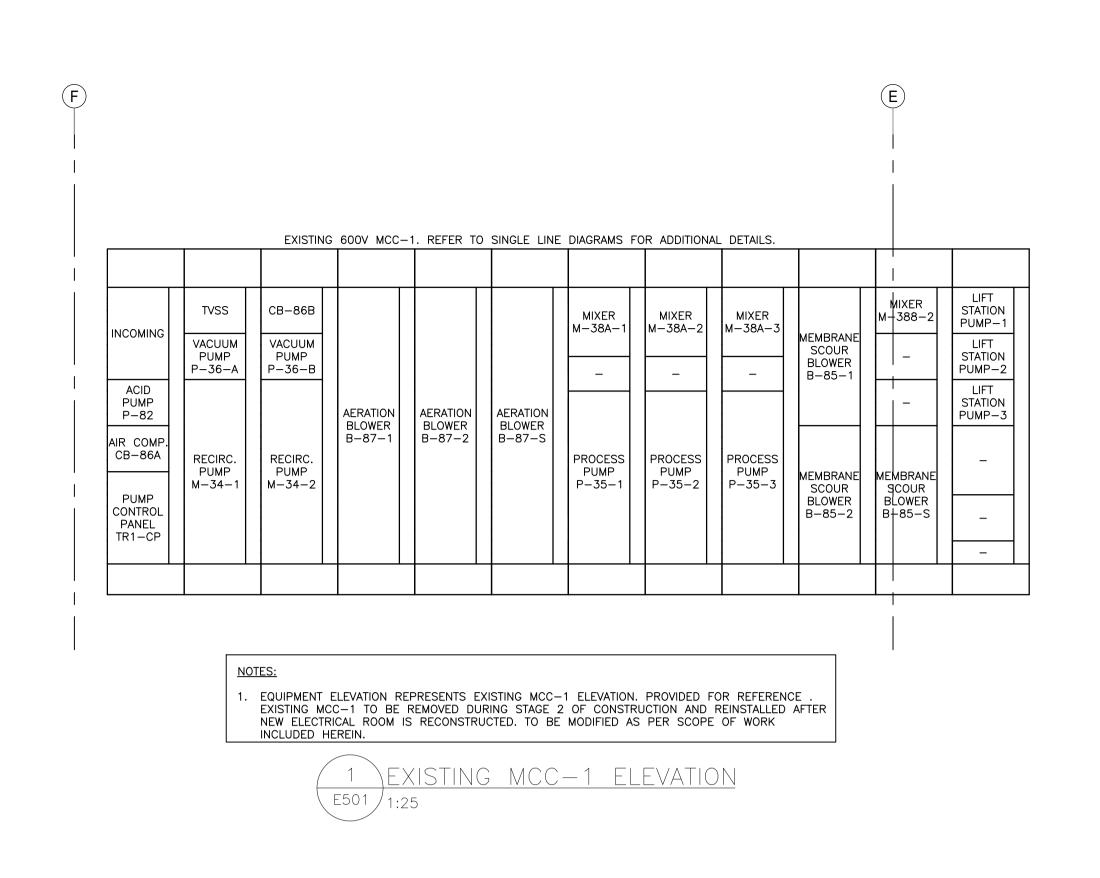
ATER TREATMENT PLANT UPGRADE/EXPANSION

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 UPPER FLOOR NEW CABLE TRAY AND INTRUSION ALARM PLAN

Scale Project No. AS SHOWN 110126045 Drawing No. Sheet Revision E206 13 of 23 0



	EVICTING		.,		
	EXISTING (JABLE IKA	T		
G 600V MCC-	-2. REFER 1	TO SINGLEL	INE DIAGRAMS	FOR ADDITI	ONAL DETAILS.
GLYCOL HEATING P-104G	FEW PUMP#1 P-17				
SALSNES FILTER PF-108	FEW PUMP#2 P-18			PUMF P-10	4
MXR-201 FUTURE	FEW PUMP#3 P-19				TERMINAI CONTROL
EXHAUST FAN EF-1 FUTURE	TRASH AUGER-2				SECTION
EXHAUST FAN EF-2 FUTURE					
PUMP P-04 FUTURE	AUGER-1 SSCR-106				
	GLYCOL HEATING P-104G SALSNES FILTER PF-108 MXR-201 FUTURE EXHAUST FAN EF-1 FUTURE EXHAUST FAN EF-2 FUTURE PUMP	GLYCOL HEATING P-104G SALSNES FILTER PUMP#1 P-17 SALSNES FILTER PUMP#2 P-18 MXR-201 FEW PUMP#3 P-19 EXHAUST FAN EF-1 FUTURE EXHAUST FAN EF-2 FUTURE PUMP EXHAUST FAN EF-2 FUTURE TRASH AUGER-1	G 600V MCC-2. REFER TO SINGLEL GLYCOL HEATING P-104G SALSNES FILTER PF-108 MXR-201 FUTURE EXHAUST FAN EF-1 FUTURE EXHAUST FAN EF-2 FUTURE PUMP TRASH AUGER-1 TRASH AUGER-1	GLYCOL HEATING P-104G P-104G SALSNES FILTER PF-108 MXR-201 FEW PUMP#2 P-18 MXR-201 FEW PUMP#3 P-102 EXHAUST FAN EF-1 FUTURE EXHAUST FAN EF-2 FUTURE PUMP PUMP TRASH AUGER-2 SSCR-105 TRASH AUGER-1	GLYCOL HEATING P-104G SALSNES FILTER PUMP#1 P-102 SALSNES FILTER PUMP#2 P-18 MXR-201 FEW PUMP#2 P-102 EXHAUST FAN EF-1 FUTURE EXHAUST FAN EF-2 FUTURE PUMP AUGER-1 TRASH AUGER-1 TRASH AUGER-1

EXISTING MCC-2 ELEVATION

1. EQUIPMENT ELEVATION REPRESENTS EXISTING MCC-2 ELEVATION. TO BE MODIFIED AS PER SCOPE OF WORK INCLUDED HEREIN

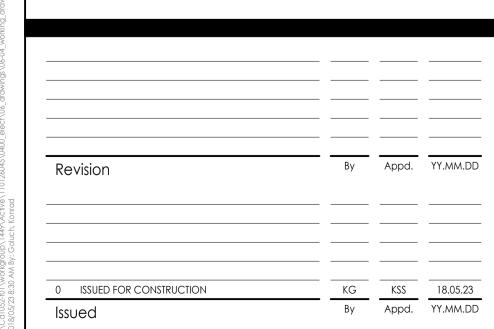
			TRUE	NORTH	CONSTRUCTIO NORTH
(A)———	1 (2)	3 (4) (5) 6
•					
B-					
©——	O O	2/5 E501			
(E)					
(F)					1/4 E501
(-)					

EQUIPMENT ELEVATION KEYPLAN

				MCC-1							
NCOMING SPACE SPACE	DAF 1 P-02-410 CMS DAF 1 P-02-420 CMS DAF 1 P-02-430 CMS	AGITATOR PAG-04- 920 CMS FEEDER PSF-04- 930 CMS MIXER MXR-04- 960 CMS BFP FEED PUMP 2 P-03-640 VFD	BLOWER 3 B-02-130 VFD+LINE FILTER	BLOWER 2 B-02-120 VFD+LINE FILTER	BLOWER 1 B-02-110 VFD+LINE FILTER	TWAS PUMP 1 P-02-610 VFD LINE FILTER TWAS PUMP 2 P-02-620 VFD	DAF 2 P-02-440 CMS DAF 2 P-02-450 CMS DAF 2 P-02-460 CMS BFP BFP-03-650 BOOSTER PUMP	DAF 1 SLUDGE SCRAPER DDR-02- 311 VFD LINE FILTER DAF 2 SLUDGE SCRAPER DDR-02- 321 VFD	AGITATOR PAG-04- 720 CMS FEEDER PSF-04- 730 CMS MIXER MXR-04- 760 CMS BFP FEED PUMP 1 P-03-630 VFD	SPACE P-04-770 VFD P-04-780 VFD P-04-790 VFD SPACE	SPACE P-04-980 VFD SPACE
SPACE	SPACE	LINE FILTER	SPACE	SPACE	SPACE	LINE FILTER SPACE	P-03-670 CMS BFP COMPRESSOR	LINE FILTER SPACE	LINE FILTER	SPACE	SPACE

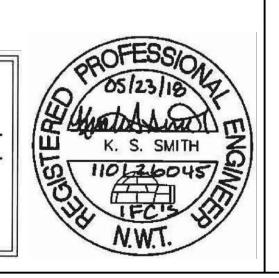
General Notes

	_		MCC-2				
INCOMING	SPD	SPACE					
AHU-3 SUPPLY	SPACE	SPACE					
AHU-3	SPACE	SPACE	PUMP P-01-110	PUMP P-01-120		PUMP P-01-130	TERMINAL
RETURN SCR-01-	SPACE	AHU-2	VFD + LINE FILTER	VFD + LINE FILTER		VFD + LINE FILTER	CONTROL SECTION
210 CMS SCR-01- 220 CMS	SPACE	SPACE					



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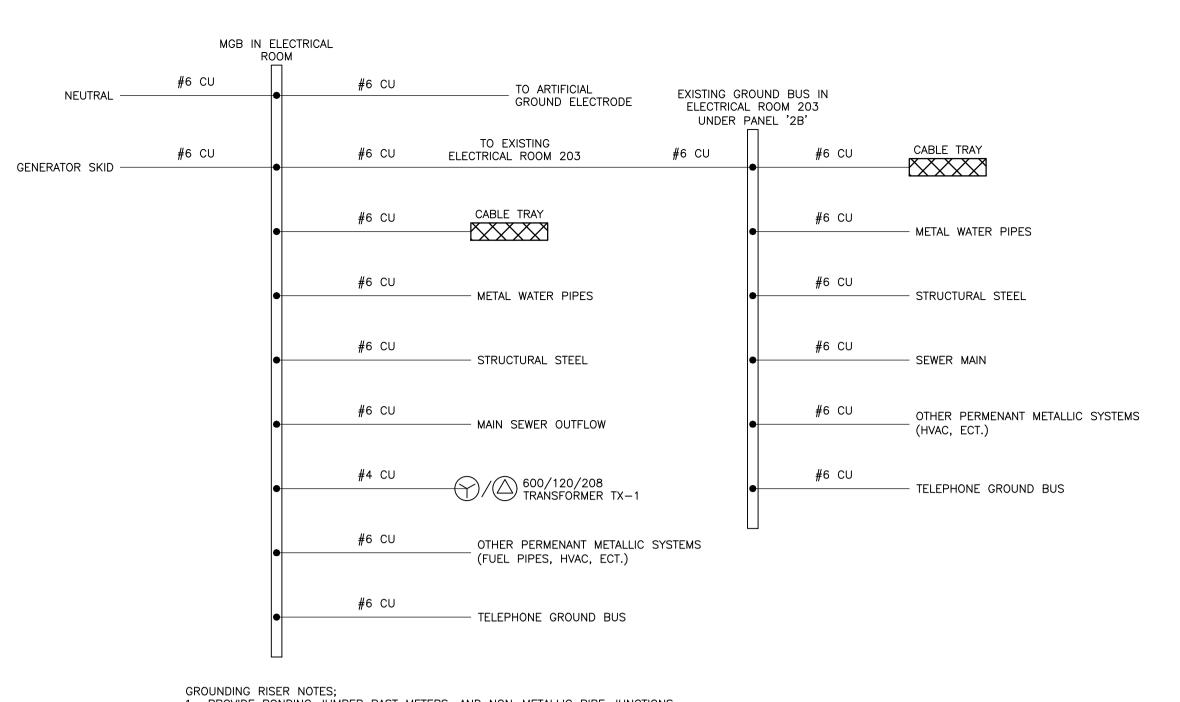
IQALUIT WASTEWATER TREATMENT PLANT UPGRADE/EXPANSION

City of Iqaluit, Nunavut

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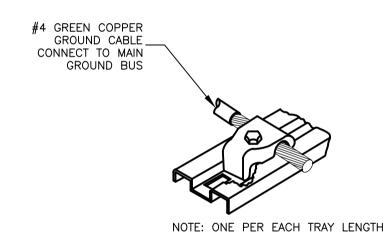
EXISTING AND NEW ELECTRICAL **EQUIPMENT ELEVATIONS**

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Drawing No.	Sheet	Revision
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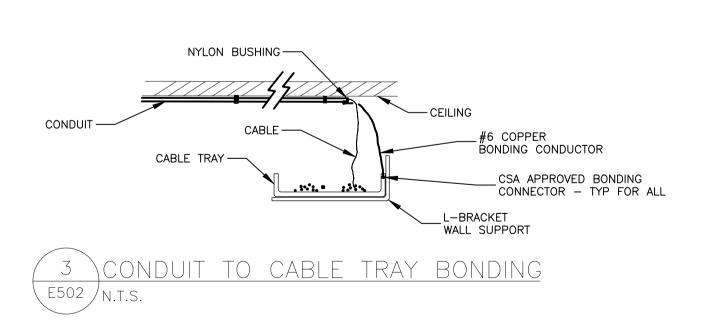


1. PROVIDE BONDING JUMPER PAST METERS, AND NON-METALLIC PIPE JUNCTIONS. . BARE COPPER REQUIRED FOR GROUND ELECTRODE AND SYSTEM GROUND CONDUCTOR. 3. ALL OTHER BONDING PAST THE SERVICE SWITCH TO BE IN GREEN, INSULATED BOND CONDUCTOR, SIZE AS INDICATED, COPPER RW90 XLPE.

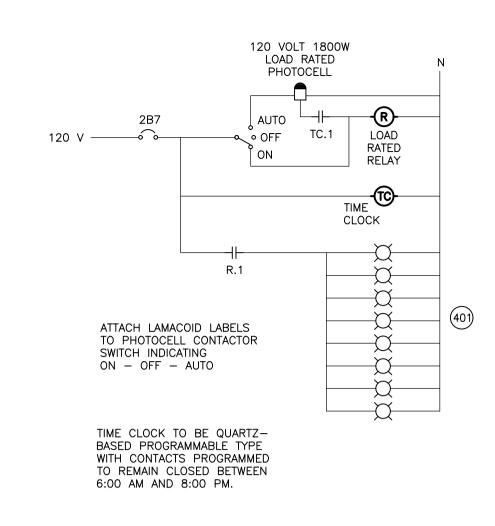
GROUNDING RISER DIAGRAM



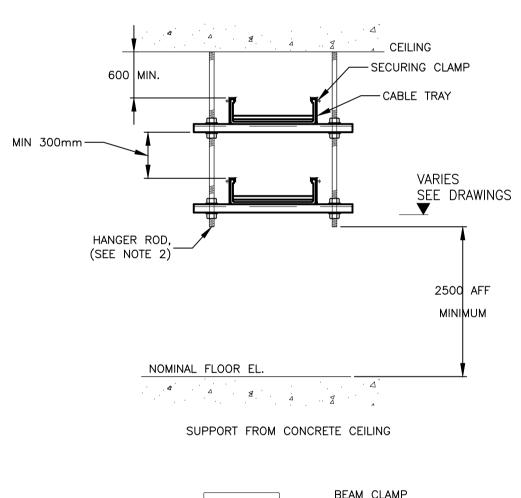
TYPICAL GROUND CLAMP (CABLE TRAY) E502 / N.T.S.

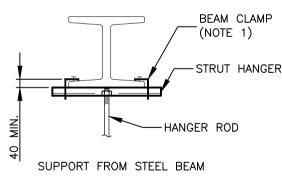


General Notes



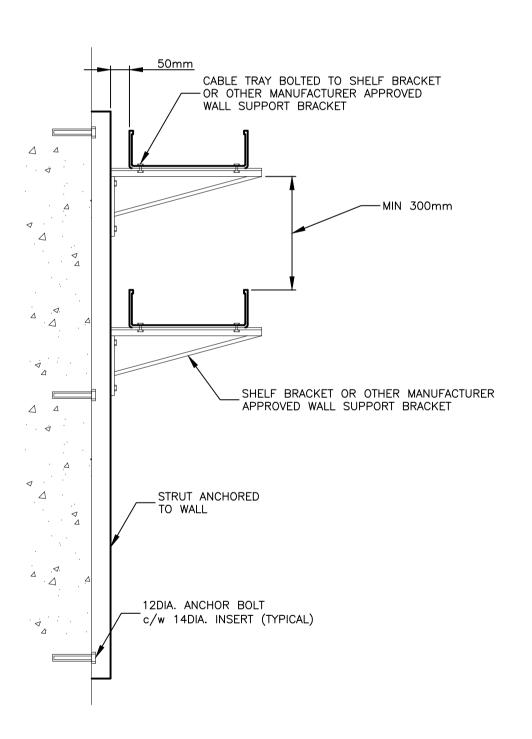
\PHOTOCELL CONTROL SCHEMATIC E502 / N.T.S.



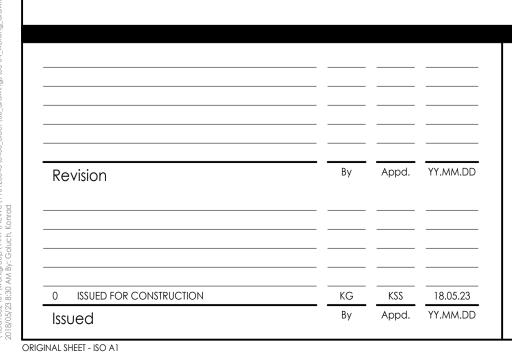


NOTES: 1. CLAMP TO SUIT BEAM, PURLIN, TRUSS OR OTHER SIMILAR MEMBERS. 2. SEE SPECIFICATION FOR CABLE TRAY REQUIREMENTS.

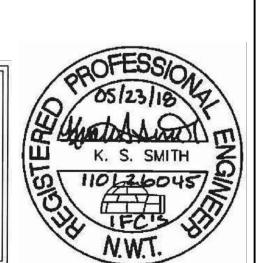
5 SUSPENDED CABLE TRAY INSTALLATION DETAIL E502 / N.T.S.



6 HORIZONTAL WALL MOUNTED CABLE TRAY INSTALLATION DETAIL E502 N.T.S.



Permit-Seal PERMIT TO PRACTICE NUNAMI STANTEC LTD. 22 MAY 2018 PERMIT NUMBER: P 1117 NT/NU Association of Professional Engineers and Geoscientists # 110126045



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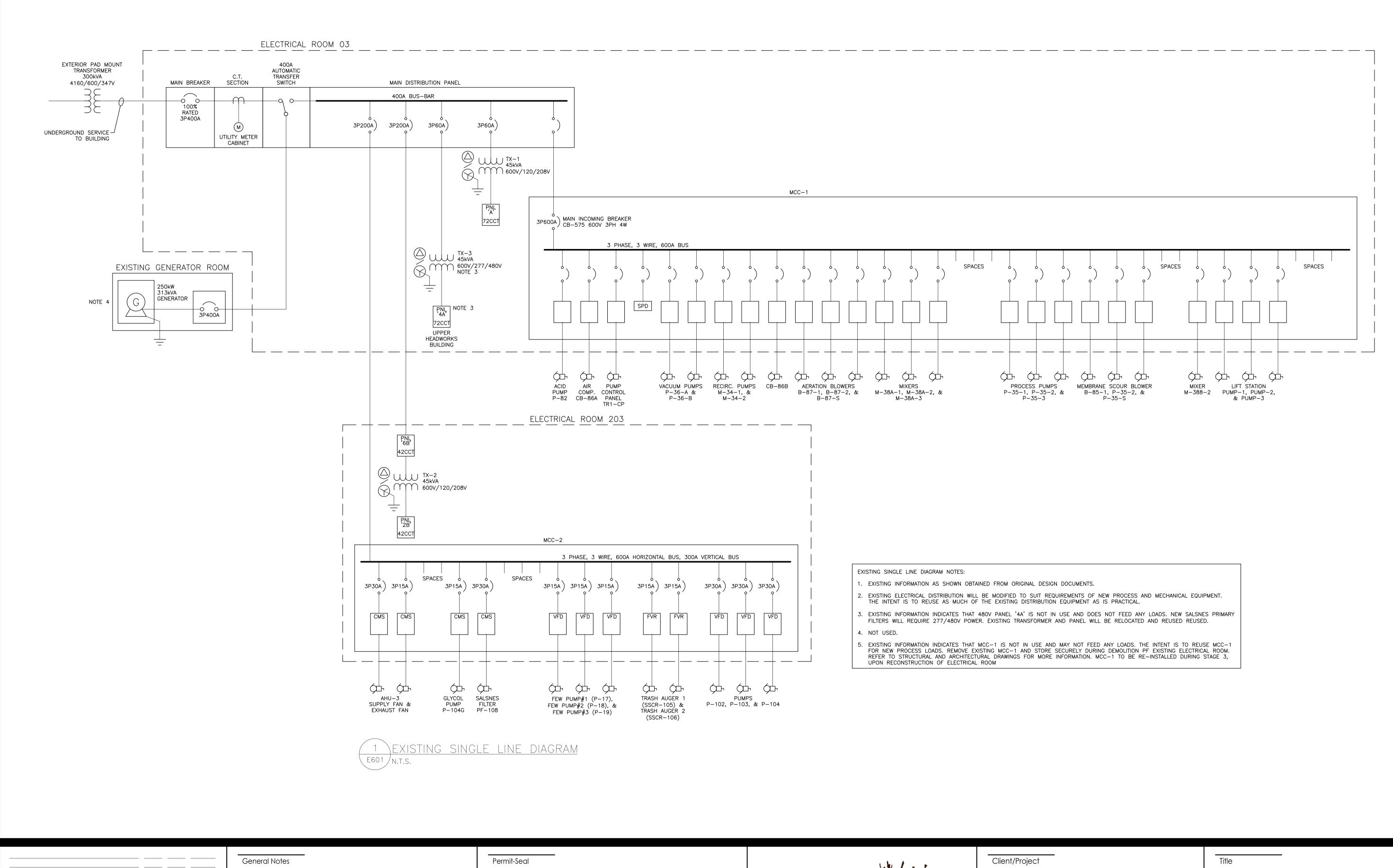


IQALUIT WASTEWATER TREATMENT PLANT LIPGRADE/EXPANSION

File Name:	KG	KSS	KSS	18.05.23
City of Iqaluit, Nunavut				

Project No. Scale AS SHOWN 110126045 Drawing No. Sheet Revision E502 15 of 23 0

ELECTRICAL DETAILS



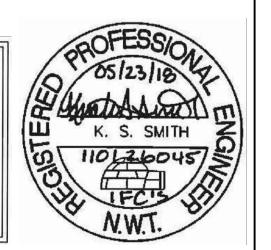
Revision 0 ISSUED FOR CONSTRUCTION Issued ORIGINAL SHEET - ISO A1

Appd. YY.MM.DD

 KG
 KSS
 18.05.23

 By
 Appd.
 YY.MM.DD

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IQALUIT WASTEWATER TREATMENT PLANT UPGRADE/EXPANSION

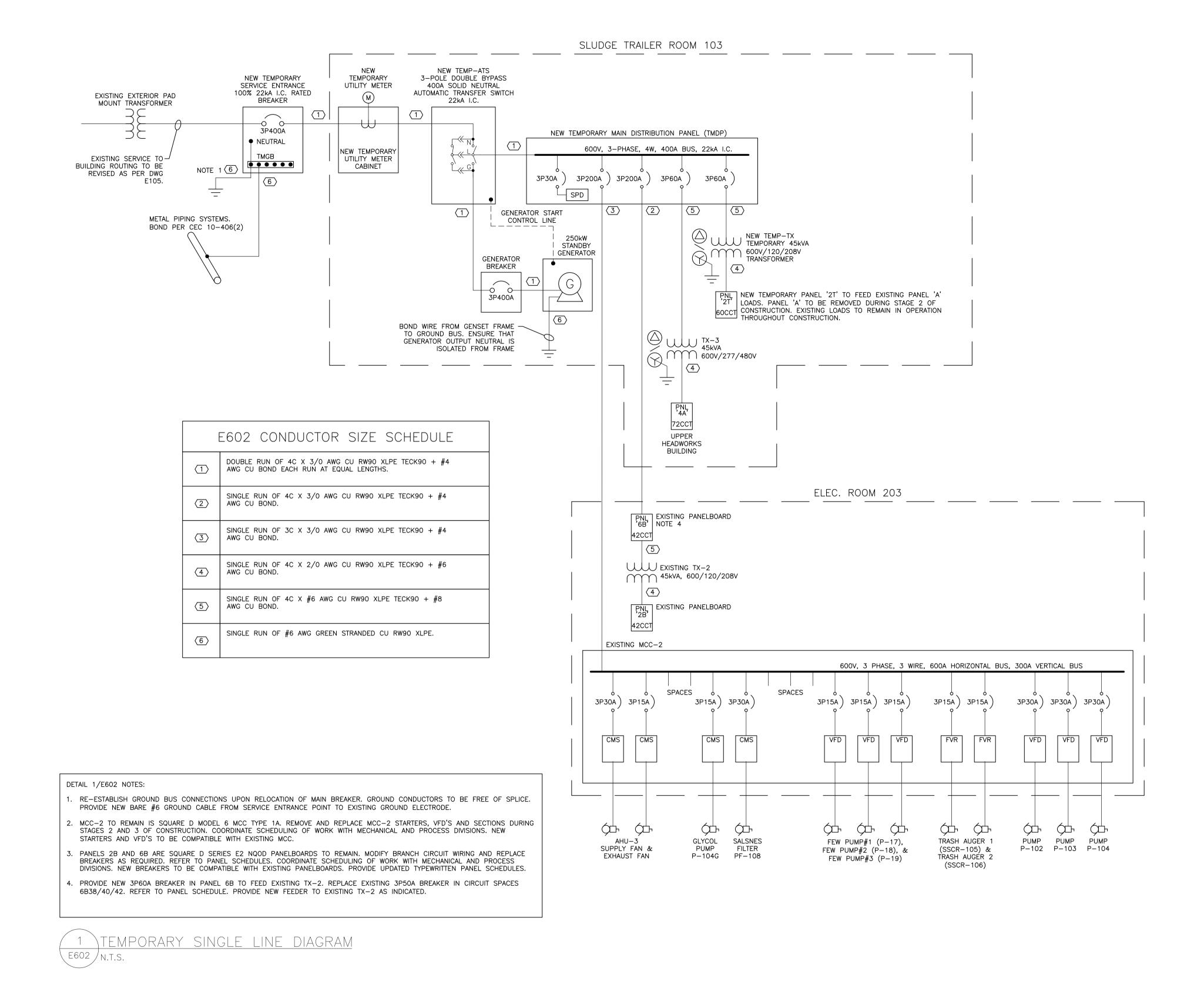
City of Iqaluit, Nunavut

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 File Name:

EXISTING SINGLE LINE DIAGRAM

Project No. Scale AS SHOWN 110126045 Drawing No. Sheet Revision E601 16 of 23 0



Appd. YY.MM.DD Revision KG KSS 18.05.23 0 ISSUED FOR CONSTRUCTION By Appd. YY.MM.DD

General Notes

Permit-Seal

PERMIT TO PRACTICE NUNAMI STANTEC LTD. 22 MAY 2018 PERMIT NUMBER: P 1117

110126045 NT/NU Association of Professional Engineers and Geoscientists # 110126045

K. S. SMITH



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IQALUIT WASTEWATER TREATMENT PLANT UPGRADE/EXPANSION

City of Iqaluit, Nunavut

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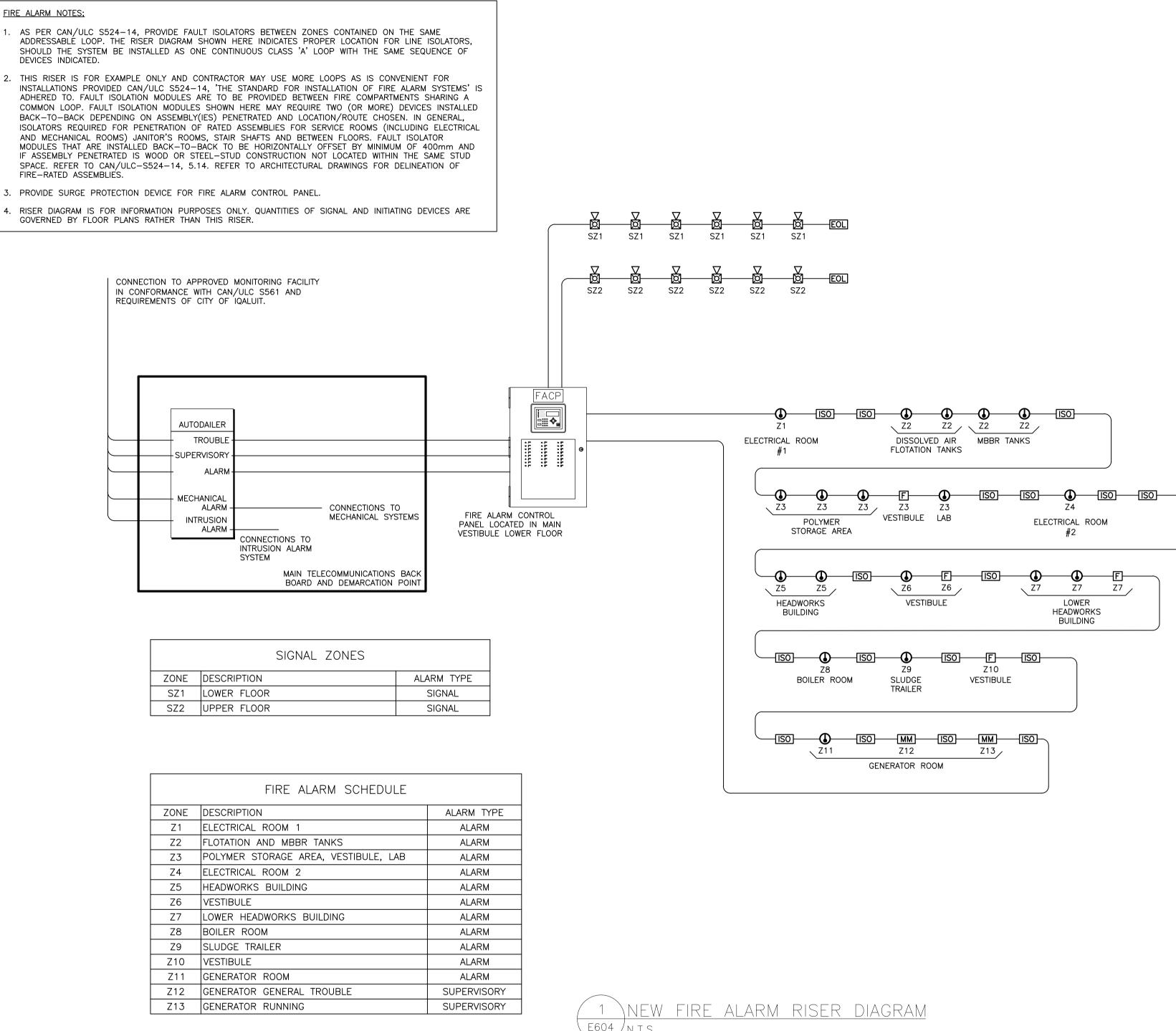
TEMPORARY SINGLE LINE DIAGRAM

Project No. Scale AS SHOWN 110126045 Drawing No. Sheet Revision E602 17 of 23 0

Issued ORIGINAL SHEET - ISO A1

ELECTRICAL ROOM 202 CUSTOMER DIGITAL ATS-1, 400A METER 3-POLE, SOLID
NEUTRAL, AUTOMATIC
TRANSFER SWITCH METER (M)(M)INCOMING BREAKER 347/600V MAIN DISTRIBUTION PANEL MDP-1 EXISTING UTILITY PAD MOUNT SECTION SECTION TRANSFORMER 400A CIRCUIT BREAKER 400A BUS-BAR 22kA I.C. 100% DUTY RATED UTILITY CUSTOMER NEUTRAL 3P100A) METERING METERING 3P30A) 3P100A) 3P150A 3P60A) 3P200A) 3P250A) 3P200A) SECTION SPD -SPARE MAIN SYSTEM GROUND TO BE FREE OF SPLICE FROM SERVICE ENTRANCE \bullet \bullet \bullet \bullet 4 $\langle 2 \rangle$ 3 8 GROUNDING POINT TO FOUR (4) ARTIFICIAL GROUND ROD ELECTRODES. NOTE 5. NOTE 6 NOTE 5 \bullet \bullet \bullet \bullet MAIN TELECOMM EXISTING MCC-1 GROUND ELECTRODE FORMED BY 4 x GROUND 3000m x 19mm COPPER CLAD GROUND BUS-BAR (MTGB) RODS. ELECTRODES TO BE 600A BUS-BARS, VERTICAL AND HORIZONTAL INTERCONNECTED WITH BARE #6 COPPER. METAL PIPING SYSTEMS. BOND PER CEC 10-406(2) 3P15A) 3P60A) 3P60A) 3P60A) 3P15A) 3P15A) 3P25A) 3P25A) 3P15A) 3P20A) 3P15A) 3P15A) 3P25A) 3P25A) 3P25A) NEW TX-1 112.5kVA NOTE 5 600V/120/208V VFD VFD VFD VFD VFD VFD VFD CMS SPD 120/208V CENTRAL DISTRIBUTION PANEL CDP-1 LINE FILTER LINE LINE LINE LINE FILTER LINE LINE LINE LINE FILTER FILTER 400A BUS-BAR 22kA I.C. GENERATOR EXTERIOR ROOM 3P30A) 3P100A) 3P100A) 3P100A)3P100A) NOTE 3 250kW GENERATOR START -LOAD BANK CONTROL SIGNAL $\langle 2 \rangle$ SPD SPARE BFP POLYMER DOSING FEEDER BFP FEED PUMPS TWAS PUMPS DAF P-02-410 & P-02-420 & P-02-430 PUMPS P-04-970 & OL (10) (3) 3 (3) ϕ BFP-03-650. PSF-04-730 & P-03-630 & P-02-610 & \bigcirc \bigcirc P-04-980 PSF-04-930 P-03-640 BOOSTER PUMP P-02-620 3P400A 3P400A DAF POLYMER DOSING PUMPS AGITATOR MIXER BLOWERS B-02-130 & DAF 2 P-02-440 & P-03-670 DAF SLUDGE SCRAPER BELT FILTER INTERLOCKED, P-04-770 & P-04-780 & PAG-04-720 & MXR-04-760 & B-02-120 & B-02-110 P-02-450 & P-02-460 DDR-02-311 & PRESS LOAD BANK | • ENCLOSED, DUAL P-04-790 PAG-04-920 MXR-04-960 DDR-02-321 COMPRESSOR GENERATOR OUTPUT, CONTROLLER **BREAKERS** L------GENERATOR RUNNING SIGNAL TO FIRE ALARM -*MCC SPACES/SPARES NOT SHOWN FOR CLARITY. REFER TO MCC GENERATOR L CONTROL PANEL ELEVATIONS FÓR ADDITIONAL INFORMATION CONTROLLER EXISTING 250kW STANDBY DIESEL GENERATOR 347/600V 3ø 4W GENERATOR RUN #6 COPPER BOND ROOM FROM GENERATOR FRAME TO MAIN GROUND BUS EXISTING ELEC. ROOM 209 EXISTING MCC-2 TX-3 45kVA 600V/ 45kVA 600V/277/480V NOTE 3 E603 CONDUCTOR SIZE SCHEDULE 600A HORIZONTAL BUS, 300A VERTICAL BUS **EXISTING EXISTING** DOUBLE RUN OF 4C X 3/0 AWG CU RW90 XLPE TECK90 + #4 **PANEL** PANEL **6** 3P15A) 3P15A) 3P15A) 3P15A) 3P3OA) 3P6OA) 3P6OA) 3P6OA) 3P25A) AWG CU BOND EACH RUN AT EQUAL LENGTHS. PNL NOTE 3 DOUBLE RUN OF 4C X 3/0 AWG CU RW90 XLPE + #4 AWG CU BOND EACH RUN AT EQUAL LENGTHS EACH IN 53mm EMT CONDUIT. CMS CMS SPD 72CCT SINGLE RUN OF 4C X #3 AWG CU RW90 XLPE + #6 AWG CU UPPER BOND IN 41mm EMT CONDUIT. HEADWORKS DEMAND CALCULATION AS PER C22.1-15 BUILDING SINGLE RUN OF #6 AWG BARE CU. SERVICE FEEDER CALCULATION 4 W/M² AREA(M²) % OF LOAD BASIC AREA LOADING INDUSTRIAL AND COMMERCIAL 25 739 100 18475 W SINGLE RUN OF 3C X #6 AWG CU RW90 XLPE TECK90 + #8 AWG CU BOND. \bigcirc QTY UNIT (W) SINGLE RUN OF 4C X 2/0 AWG CU RW90 XLPE TECK90 + #6 **6** FINE SCREENS PUMPS P-01-110, AHU-3AHU-2 AWG CU BOND. 7200 W PARKING RECEPTACLES 1200 100 SUPPLY FAN & SCR-01-210 & P-01-120, & P-01-130 EXHAUST FAN SCR-01-220 100 50000 W RAW WASTEWATER PUMPS 25000 SINGLE RUN OF 3C X 3/0 AWG CU RW90 XLPE TECK90 + #4 AERATION BLOWERS 25000 100 50000 W AWG CU BOND. DAF WHITE WATER PUMPS 10000 100 40000 W SINGLE RUN OF 3C X 250kcmil CU RW90 XLPE + #4AWG CU OTHER HEADWORKS LOADS 27000 100 27000 W BOND IN 78mm EMT CONDUIT FINAL SINGLE LINE DIAGRAM OTHER PROCESS LOADS 20000 100 20000 W SINGLE RUN OF 3C X 1/0 AWG CU RW90 XLPE + #6 AWG CU AIR HANDLING UNIT AHU-2 11000 W 1 11000 100 BOND IN 53mm EMT CONDUIT. 10000 AIR HANDLING UNIT AHU-3 100 10000 W 15000 OTHER MECHANICAL LOADS 100 15000 W SINGLE RUN OF 2C X #12 AWG CU RW90 XLPE + #14 AWG CU (10) BOND IN 21mm EMT CÖNDUIT. 1. ENSURE THAT THE ACTUAL VOLTAGE DROP ON THE FEEDERS SUPPLYING PANEL DOES NOT EXCEED THE REQUIREMENTS OF CEC RULE 8-102. 248675 W SUB-TOTAL 2. IF NOT INDICATED AS EXISTING, DISTRIBUTION EQUIPMENT IS NEW. FUTURE EXPANSION 298410 W 3. BREAKER FOR FIRE ALARM CONTROL PANEL TO BE RED IN COLOUR, C/W COMPATIBLE LOCK-ON DEVICE. TO SOURCE NO OTHER LOADS. AT 347/600V, 3 PHASE 287 A 4. ENSURE THAT GENERATOR OUTPUT NEUTRAL IS ISOLATED FROM FRAME. 400 A 5. REFER TO 1/E502 FOR GROUNDING RISER DIAGRAM. *SERVICE CALCULATION ACCOUNTS FOR DUTY AND STANDBY LOADS NOT BEING OPERATIONAL AT THE SAME TIME AS PER CONTROLS SEQUENCING. 6. THROUGH LUG CONNECTION TO GROUND BUS. CONDUCTOR TO BE FREE OF SPLICE FROM MAIN BREAKER TO GROUND ELECTRODE. General Notes Permit-Seal Client/Project FINAL SINGLE LINE DIAGRAM **I**qaluit PERMIT TO PRACTICE 05/23/18 5 NUNAMI STANTEC LTD. Appd. YY.MM.DD Revision STANTEC LIMITED Signature IQALUIT WASTEWATER TREATMENT PLANT K. S. SMITH 22 MAY 2018 Project No. Scale 202 107 Main Street UPGRADE/EXPANSION 110126045/ AS SHOWN Whitehorse YT 110126045 PERMIT NUMBER: P 1117 www.stantec.com City of Iqaluit, Nunavut NT/NU Association of Professional Engineers Drawing No. Sheet Revision The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any and Geoscientists KG KSS 18.05.23
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 0 ISSUED FOR CONSTRUCTION errors or omissions shall be reported to Stantec without delay. File Name: # 110126045 By Appd. YY.MM.DD The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for 18 of 23 0 Issued any purpose other than that authorized by Stantec is forbidden. ORIGINAL SHEET - ISO A1



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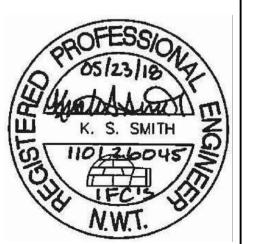
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General Notes

Permit-Seal

PERMIT TO PRACTICE NUNAMI STANTEC LTD. 22 MAY 2018

PERMIT NUMBER: P 1117 NT/NU Association of Professional Engineers and Geoscientists # 110126045





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IQALUIT WASTEWATER TREATMENT PLANT UPGRADE/EXPANSION

City of Iqaluit, Nunavut

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NEW FIRE ALARM RISER DIAGRAM

Project No. Scale AS SHOWN 110126045 Drawing No. Revision E604 19 of 23 0

			PRO	OCES	S MOTO	R, CO	NTRO	DL AND) EQUIPMENT SCHEDULE				
ID	DESCRIPTION	DUTY	LOCATION	HP	WATTS				FEEDER	BREAKER	SOURCE	CONTROL	COMMENTS
	BE INSTALLED	1 2011	250/11/014		1	1,02,0	1'''		, LLDLIN		JOONOL	1 33111102	1 20
EQUIPMENT TO	DE INSTALLED	<u> </u>				1	<u> </u>	1 1					
P-01-110	RAW WASTEWATER PUMP 1	DUTY	HEADWORKS WET WELL	25	_	575	3	27	3C #6 AWG CU + #8 AWG CU BOND TECK CABLE	3P60	MCC-2	VFD/LRD	-
P-01-120	RAW WASTEWATER PUMP 2	DUTY	HEADWORKS WET WELL	25	_	575	3	27	3C #6 AWG CU + #8 AWG CU BOND TECK CABLE	3P60	MCC-2	VFD/LRD	-
P-01-130	RAW WASTEWATER PUMP 3	STANDBY	HEADWORKS WET WELL	25	_	575	3	27	3C #6 AWG CU + #8 AWG CU BOND TECK CABLE	3P60	MCC-2	VFD/LRD	_
SCRN-01-210	FINE SCREEN 1	DUTY	HEADWORKS UPPER	2	_	575	3	2.7	3C #12 AWG CU + #14 AWG CU BOND TECK CABLE	3P15	MCC-2	CMS/LRD	_
SCRN-01-220	FINE SCREEN 2	STANDBY	HEADWORKS UPPER	2	_	575	3	2.7	3C #12 AWG CU + #14 AWG CU BOND TECK CABLE	3P15	MCC-2	CMS/LRD	-
PF-01-310	PRIMARY FILTER BELT 1	DUTY	HEADWORKS UPPER	1	_	480	3	1.8	3C #12 AWG CU + #14 AWG CU BOND TECK CABLE	3P15	4A1,3,5	LRD	PRIMARY FILTER IS PACKAGED UNIT
PF-01-330 PF-01-320	PRIMARY FILTER SCREW PRESS 1 PRIMARY FILTER BELT 2	DUTY ASSIST	HEADWORKS UPPER HEADWORKS UPPER	0.5		480 480	3	1.8	3C #12 AWG CU + #14 AWG CU BOND TECK CABLE 3C #12 AWG CU + #14 AWG CU BOND TECK CABLE	3P15 3P15	4A7,9,11 4A13,15,17	LRD LRD	COMPLETE WITH VFD'S
PF-01-340	PRIMARY FILTER SCREW PRESS 2	ASSIST	HEADWORKS UPPER	0.5	_	480	3	1.0	3C #12 AWG CU + #14 AWG CU BOND TECK CABLE	3P15	4A19,21,23	LRD	PRIMARY FILTER IS PACKAGED UNIT COMPLETE WITH VFD'S
B-02-110	PROCESS AERATION BLOWER 1	DUTY	SECONDARY TREATMENT-UPPER	25	_	575	3	27	3C #6 AWG CU + #8 AWG CU BOND TECK CABLE	3P60	MCC-1	VFD/LRD	PACKAGED UNIT WITH SINGLE POINT POWER
							+ -					<u> </u>	CONNECTION PACKAGED UNIT WITH SINGLE POINT POWER
B-02-120	PROCESS AERATION BLOWER 2	DUTY	SECONDARY TREATMENT—UPPER	25	_	575		27	3C #6 AWG CU + #8 AWG CU BOND TECK CABLE	3P60	MCC-1	VFD/LRD	CONNECTION PACKAGED UNIT WITH SINGLE POINT POWER
B-02-130	PROCESS AERATION BLOWER 3	STANDBY	SECONDARY TREATMENT-UPPER	25	_	575	3	27	3C #8 AWG CU + #10 AWG CU BOND TECK CABLE	3P60	MCC-1	VFD/LRD	CONNECTION CONNECTION
DDR-02-311	DAF 1 SLUDGE SCRAPER	DUTY	SECONDARY TREATMENT-LOWER	0.5	_	575	3	0.9	3C #12 AWG CU + #14 AWG CU BOND TECK CABLE	3P15	MCC-1	VFD/LRD	
P-02-410 P-02-420	DAF 1 WHITE WATER PUMP 1 DAF 1 WHITE WATER PUMP 2	DUTY	SECONDARY TREATMENT—LOWER SECONDARY TREATMENT—LOWER	10		575 575	3	11	3C #12 AWG CU + #14 AWG CU BOND TECK CABLE 3C #12 AWG CU + #14 AWG CU BOND TECK CABLE	3P25 3P25	MCC-1	CMS/LRD CMS/LRD	
P-02-420 P-02-430	DAF 1 WHITE WATER PUMP 3	STANDBY	SECONDARY TREATMENT-LOWER	10		575	3	11	3C #12 AWG CU + #14 AWG CU BOND TECK CABLE	3P25 3P25	MCC-1	CMS/LRD	
DDR-02-321	DAF 2 SLUDGE SCRAPER	DUTY	SECONDARY TREATMENT-LOWER	0.5	_	575	3	0.9	3C #12 AWG CU + #14 AWG CU BOND TECK CABLE	3P15	MCC-1	VFD/LRD	
P-02-440	DAF 2 WHITE WATER PUMP 1	DUTY	SECONDARY TREATMENT-LOWER	10	_	575	3	11	3C #12 AWG CU + #14 AWG CU BOND TECK CABLE	3P25	MCC-1	CMS/LRD	
P-02-450	DAF 2 WHITE WATER PUMP 2	DUTY	SECONDARY TREATMENT-LOWER	10	_	575	3	11	3C #12 AWG CU + #14 AWG CU BOND TECK CABLE	3P25	MCC-1	CMS/LRD	
P-02-460	DAF 2 WHITE WATER PUMP 3	STANDBY	SECONDARY TREATMENT—LOWER	10	_	575 575	3	11	3C #12 AWG CU + #14 AWG CU BOND TECK CABLE	3P25	MCC-1	CMS/LRD	
P-02-610 P-02-620	TWAS PUMP 1 TWAS PUMP 2	DUTY	SECONDARY TREATMENT—LOWER SECONDARY TREATMENT—LOWER	1	_	575 575	3	1.7	3C #12 AWG CU + #14 AWG CU BOND TECK CABLE 3C #12 AWG CU + #14 AWG CU BOND TECK CABLE	3P15 3P15	MCC-1	VFD/LRD VFD/LRD	
				10			7		3C #8 AWG CU + #10 AWG CU BOND TECK CABLE	3P35	4A2,4,6	,	PART OF THE PRIMARY FILTER
B-02-210	PRIMARY FILTER BLOWER 1	DUTY	HEADWORKS UPPER	10	_	480	3	14	SC #8 AWG CO + #10 AWG CO BOND TECK CABLE	3235	4A2,4,6	LRD	SYSTEM/ACKAGE UNIT
F-02-215	PRIMARY FILTER BLOWER FAN 1	DUTY	HEADWORKS UPPER	0.25	_	480	3	1 1	3C #12 AWG CU + #14 AWG CU BOND TECK CABLE	3P15	4A8,10,12	LRD	PART OF THE PRIMARY FILTER SYSTEM/ACKAGE UNIT
B-02-220	PRIMARY FILTER BLOWER 2	ASSIST	HEADWORKS UPPER	10	_	480	3	14	3C #8 AWG CU + #10 AWG CU BOND TECK CABLE	3P35	4A14,16,18	LRD	PART OF THE PRIMARY FILTER
B 02 220	TRIMARY FIETER BESWER 2		THE REWORKS OF PER				+	' '					SYSTEM/ACKAGE UNIT PART OF THE PRIMARY FILTER
F-02-225	PRIMARY FILTER BLOWER FAN 2	ASSIST	HEADWORKS UPPER	0.25	_	480	3	1	3C #12 AWG CU + #14 AWG CU BOND TECK CABLE	3P15	4A20,22,24	LRD	SYSTEM/ACKAGE UNIT
P-03-630	BELT FILTER PRESS FEED PUMP 1	DUTY	SOLIDS HANDLING LOWER	2	_	575	3	2.7	3C #12 AWG CU + #14 AWG CU BOND TECK CABLE	3P15	MCC-1	VFD/LRD	
P-03-640	BELT FILTER PRESS FEED PUMP 2	STANDBY	SOLIDS HANDLING LOWER	2	_	575	3	2.7	3C #12 AWG CU + #14 AWG CU BOND TECK CABLE	3P15	MCC-1	VFD/LRD	
BFP-03-650	BELT FILTER PRESS	DUTY	SOLIDS HANDLING UPPER	1	_	575	3	1.7	3C #12 AWG CU + #14 AWG CU BOND TECK CABLE	3P15	MCC-1	CMS/LRD	PACKAGED UNIT WITH SINGLE POINT POWER
211 00 000	BEET FIELEN TINESS	DUTY	SOLIDS HANDLING UPPER	2	1500	575	3	2.7	3C #12 AWG CU + #14 AWG CU BOND TECK CABLE	3P15	I Wood	J	CONNECTION
P-03-670	BOOSTER PUMP	DUTY	SOLIDS HANDLING UPPER		5500	575	3		3C #12 AWG CU + #14 AWG CU BOND TECK CABLE	3P20	MCC-1	CMS/LRD	
VAC-04-710	DAF POLYMER VACUUM CONVEYOR	DUTY	CHEMICAL DOSING UPPER			120	1	9.2	2C #12 AWG CU + #14 AWG CU BOND TECK CABLE	1P20	2B42	CMS/LRD	
PAG-04-720	DAF FEEDER HOPPER POLYMER AGITATOR	DUTY	CHEMICAL DOSING UPPER	0.5	_	575	3	0.9	3C #12 AWG CU + #14 AWG CU BOND TECK CABLE	3P15	MCC-1	CMS/LRD	
PSF-04-730 MXR-04-760	DAF POLYMER SCREW FEEDER DAF POLYMER MIXER	DUTY	CHEMICAL DOSING UPPER CHEMICAL DOSING UPPER	0.25		575 575	3	0.9	3C #12 AWG CU + #14 AWG CU BOND TECK CABLE 3C #12 AWG CU + #14 AWG CU BOND TECK CABLE	3P15 3P15	MCC-1	CMS/LRD CMS/LRD	
P-04-770	POLYMER DOSING PUMP 1	DUTY	CHEMICAL DOSING UPPER	0.5	_	575	3	0.9	3C #12 AWG CU + #14 AWG CU BOND TECK CABLE	3P15	MCC-1	LRD	C/W VFD SUPPLIED BY OTHERS
P-04-780	POLYMER DOSING PUMP 2	STANDBY	CHEMICAL DOSING UPPER	0.5	_	575	3	0.9	3C #12 AWG CU + #14 AWG CU BOND TECK CABLE	3P15	MCC-1	LRD	C/W VFD SUPPLIED BY OTHERS
P-04-790	POLYMER DOSING PUMP 3	DUTY	CHEMICAL DOSING UPPER	0.5	_	575	3	0.9	3C #12 AWG CU + #14 AWG CU BOND TECK CABLE	3P15	MCC-1	LRD	C/W VFD SUPPLIED BY OTHERS
VAC-04-910	BFP POLYMER VACUUM CONVEYOR	DUTY	CHEMICAL DOSING UPPER			120	1 7	9.2	2C #12 AWG CU + #14 AWG CU BOND TECK CABLE	1P20	2B42	CMS/LRD	
PAG-04-920 PSF-04-930	BFP FEEDER HOPPER POLYMER AGITATOR BFP POLYMER SCREW FEEDER	DUTY	CHEMICAL DOSING UPPER CHEMICAL DOSING UPPER	0.5 0.25		575 575	3	0.9	3C #12 AWG CU + #14 AWG CU BOND TECK CABLE 3C #12 AWG CU + #14 AWG CU BOND TECK CABLE	3P15 3P15	MCC-1	CMS/LRD CMS/LRD	
MXR-04-960	BFP POLYMER MIXER	DUTY	CHEMICAL DOSING UPPER	0.25	_	575	3	0.9	3C #12 AWG CU + #14 AWG CU BOND TECK CABLE	3P15	MCC-1	CMS/LRD	
P-04-970	BFP POLYMER DOSING PUMP 1	DUTY	CHEMICAL DOSING UPPER		500	575	3		3C #12 AWG CU + #14 AWG CU BOND TECK CABLE	3P15	MCC-1	LRD	C/W VFD SUPPLIED BY OTHERS
P-04-980	BFP POLYMER DOSING PUMP 2	STANDBY	CHEMICAL DOSING UPPER		500	575	3		3C #12 AWG CU + #14 AWG CU BOND TECK CABLE	3P15	MCC-1	LRD	C/W VFD SUPPLIED BY OTHERS
EXISTING EQUI	PMENT TO BE REMOVED												
T-02-001	INFLUENT PUMP STATION WET WELL	DUTY	HEADWORKS	_	19000	575	3						
P-102	RAW WASTEWATER PUMP	DUTY	EXISTNG HEADWORKS WET WELL 101	_	11250	600	3	_	_	_	MCC-2	_	_
P-103	RAW WASTEWATER PUMP	DUTY	EXISTNG HEADWORKS WET WELL	_	11250	600	3	_	_	_	MCC-2	_	
			101 EXISTNG HEADWORKS WET WELL				+	+					
P-104	RAW WASTEWATER PUMP	STANDBY	101	_	11250	600	3		-	_	MCC-2	_	-
PF-108	PRIMARY FILTER SCREW SCREEN (TRASH ALIGER_1)	DUTY	EXISTING UPPER HEADWORKS 202		10100	600	3	<u> </u>			MCC-2	_	
SSCR-105 SSCR-106	SCREW SCREEN (TRASH AUGER-1) SCREW SCREEN (TRASH AUGER-2)	DUTY STANDBY	EXISTING UPPER HEADWORKS 202 EXISTING UPPER HEADWORKS 202		1500 1500	600 600	3				MCC-2	_	
B-214	BLOWER		BLOWER ROOM	_	18750	600	3			_	OLD MCC-1	_	_
B-215	BLOWER	_	BLOWER ROOM	_	18750	600	3		-	_	OLD MCC-1	-	-
B-216 B-217	BLOWER BLOWER		BLOWER ROOM BLOWER ROOM		37500 37500	600 600	3				OLD MCC-1	_	
B-217 B-218	BLOWER BLOWER		BLOWER ROOM BLOWER ROOM	_	37500 —	600	3				OLD MCC-1	_	
B-219	BLOWER	_	BLOWER ROOM		_	600	3		_		OLD MCC-1	_	
CB86-A	EXISTING AIR COMPRESSOR	-	BLOWER ROOM	-	_	600	3		-	_	OLD MCC-1	-	-
	CITRIC ACID PUMP SODIUM METERING PUMP		PUMP ROOM PUMP ROOM		_	600 600	3		-		OLD MCC-1		
P-17	FEW PUMP 1		EXISTING BOILER ROOM 104	5	_	600	3			-	MCC-2	_	
P-18	FEW PUMP 2	_	EXISTING BOILER ROOM 104	5	_	600	3	6.1	-	_	MCC-2	_	-
P-19	FEW PUMP 3	_	EXISTING BOILER ROOM 104	5	_	600	3		-	_	MCC-2	-	-
P-20	HOT FEW BOOSTER PUMP	_	ABOVE EXISTING OFFICE		_	208	1	_		_	2B2/4	-	
P-21 -	FEW RECIRCULATION PUMP FEW HOT WATER TANK		ABOVE EXISTING OFFICE EXISTING OFFICE		_	_	+-	_				_	-
	FEW HOT WATER TANK		EXISTING OFFICE	_	_	_	+-	_		_	_	_	_
_	FEW HOT WATER TANK		EXISTING OFFICE			<u> </u>		1 _			_	_	_

CONTROL DEVICE LEGEND:

LRD - LOAD RATED DISCONNECT MAG — MAGNETIC STARTER

CMS - COMBINATION MAGNETIC STARTER WITH DISCONNECT

MMP - MANUAL MOTOR PROTECTION FVR - FULL VOLTAGE REVERSING STARTER

/R - WITH LOAD RATED RELAY

/HOA - WITH H-O-A SWITCH /SFOA - WITH SLOW-FAST-OFF-AUTO SWITCH

/K - KEYED

/SS - SOFT START VFD - VARIABLE FREQUENCY DRIVE

TC - TEMPERATURE CONTROL

LC - LEVEL CONTROL CB – STANDARD CIRCUIT BREAKER

MOTOR CONTROL AND EQUIPMENT NOTES:

- MOTOR SCHEDULE IS FOR ESTIMATING PURPOSES ONLY. CONFIRM ALL MOTOR FULL LOAD CURRENTS WITH NAMEPLATES AND SIZE MOTOR DISCONNECTS, BREAKERS, FEEDERS AND OVERLOADS ACCORDINGLY.
- 2. CONFIRM PROCESS EQUIPMENT LOCATIONS WITH PROCESS DIVISION. PROVIDE POWER AND CONTROL WIRING FROM CONTROL PANEL OF EACH PACKAGED UNIT TO EQUIPMENT. ALLOW FOR CONNECTION 120V, 15A POWER FROM THE NEAREST 208V PANEL FOR LOCAL CONTROL PANEL POWER. COORDINATE WITH PROCESS SHOP DRAWINGS AND PROVIDE ACCORDINGLY.
- 3. DIVISION 26 CONTRACTOR SHALL COORDINATE THE LOCATIONS OF ALL LINE VOLTAGE PILOT DEVICES WITH PROCESS DIVISION AND PROVIDE CONDUIT AND
- 4. FOR ALL EXISTING PROCESS EQUIPMENT TO BE REMOVED, REMOVE ALL WIRING, CONDUIT, DISCONNECTS, STARTERS, ETC. DISPOSE OF EQUIPMENT AS PER DIVISION 1 REQUIREMENTS. REMOVE WIRING AND CONDUIT BACK TO SOURCE.
- 5. PROVIDE POWER TO OTHER PROCESS EQUIPMENT AS SHOWN ON PANEL SCHEDULES.

- 7. IN ADDITION TO CONTROL SHOWN, PROVIDE LOCAL DISCONNECT AT EACH MOTOR LOCATION AS REQUIRED BY C.E.C. PROVIDE EXPLOSION—PROOF DISCONNECT WHERE REQUIRED.
- 8. REFER TO 2/E002 FOR INFORMATION REGARDING CLASSIFICATIONS AND, WET AND CORROSIVE CATEGORY LOCATIONS.
- 9. INFORMATION REGARDING EXISTING EQUIPMENT TO BE REMOVED HAS BEEN OBTAINED FROM PREVIOUS DESIGN DOCUMENTATION. CONFIRM ON SITE. INFORM ENGINEER OF ANY DISCREPANCIES PRIOR TO COMMENCEMENT OF WORK.

Appd. YY.MM.DD Revision
 KG
 KSS
 18.05.23

 By
 Appd.
 YY.MM.DD
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FEW HOT WATER TANK

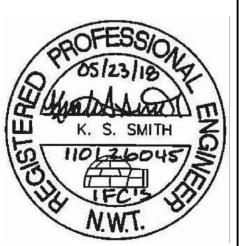
General Notes

EXISTING OFFICE

Permit-Seal

PERMIT TO PRACTICE NUNAMI STANTEC LTD. 22 MAY 2018

PERMIT NUMBER: P 1117 NT/NU Association of Professional Engineers and Geoscientists # 110126045





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Client/Project lgaluit



IQALUIT WASTEWATER TREATMENT PLANT UPGRADE/EXPANSION

City of Iqaluit, Nunavut

File Name:
 KG
 KSS
 KSS
 18.05.23

 Dwn.
 Chkd.
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PROCESS MOTOR, CONTROL AND EQUIPMENT SCHEDULE

Project No. Scale **AS SHOWN** 110126045 Drawing No. Sheet Revision 20 of 23 0

		BUILDI	NG M	ECHAN	ICAL	MOT	OR, CONTROL AND EQUIPMENT SCHEDU	JLE			
ID	DESCRIPTION	LOCATION	HP	VOLTS	_		FEEDER	BREAKER	SOURCE	CONTROL	COMMENTS
NEW EQUIPMENT					1		. 322 2				5 22
B-1	HEATING WATER BOILER BLOWER MOTOR	MECHANICAL ROOM	0.75	208	3	3.7	3C #12 AWG CU + #14 AWG CU BOND TECK CABLE	3P15	2A1,3,5	LRD	
B-1 CTRL	HEATING WATER BOILER CONTROLS	MECHANICAL ROOM	_	120	1	_	2C #12 AWG CU + #14 AWG CU BOND TECK CABLE	1P15	2A30	BREAKER	
B-2	HEATING WATER BOILER BLOWER MOTOR	MECHANICAL ROOM	0.75	208	3	3.7	3C #12 AWG CU + #14 AWG CU BOND TECK CABLE	3P15	2A2,4,6	LRD	
B-2 CTRL	HEATING WATER BOILER CONTROLS	MECHANICAL ROOM	-	120	1	_	2C #12 AWG CU + #14 AWG CU BOND TECK CABLE	1P15	2A32	BREAKER	
DHWH-1 P-1.1	OIL FIRED DIRECT HOT WATER HEATER B-1 PRIMARY HW PUMP	MECHANICAL ROOM MECHANICAL ROOM	0.125	120 208	1 7	4.4 2.5	2C #12 AWG CU + #14 AWG CU BOND TECK CABLE 3C #12 AWG CU + #14 AWG CU BOND TECK CABLE	1P15 3P15	2A19 2A7,9,11	LRD MMP/R/HOA	
P-1.1	B-2 PRIMARY HW PUMP	MECHANICAL ROOM MECHANICAL ROOM	1	208	3	2.5	3C #12 AWG CU + #14 AWG CU BOND TECK CABLE	3P15	2A7,9,11 2A8,10,12	MMP/R/HOA	
P-1.3	SECONDARY HW PUMP	MECHANICAL ROOM	2	208	3	7.8	3C #12 AWG CU + #14 AWG CU BOND TECK CABLE	3P15	2A13,15,17	VFD	
P-1.4	SECONDARY HW PUMP	MECHANICAL ROOM	2	208	3	7.8	3C #12 AWG CU + #14 AWG CU BOND TECK CABLE	3P15	2A14,16,18	VFD	
P-1.5	GLYCOL FILL TANK	MECHANICAL ROOM	_	120	1	0.7	2C #12 AWG CU + #14 AWG CU BOND TECK CABLE	1P15	2A20	GFI REC	CORD CONNECTED EQUIPMENT
P-1.6	AHU-2 PREHEAT COIL PUMP	UPPER LEVEL@AHU-2	0.5	208	3	1.98	3C #12 AWG CU + #14 AWG CU BOND TECK CABLE	3P15	2B5,7,9	CMS/R/HOA	_
CTRL-P2.1/2.2	CONTROL PANEL FOR PUMPS P-2.1 & P-2.2	SLUDGE TRAILER GL C:5-6	_	208	3	_	3C #12 AWG CU + #14 AWG CU BOND TECK CABLE	3P15	2B29,31,33	BREAKER	
P-2.1	SUMP PUMP (REPLACING P-7)	SLUDGE TRAILER GL C:5-6	0.6	208	3	2.9	3C #12 AWG CU + #14 AWG CU BOND TECK CABLE	-	CTRL-P2.1/2.2	CTRL-P2.1,2	NOTE 6.
P-2.2 CTRL-P2.3/2.4	SUMP PUMP (REPLACING P-8) CONTROL PANEL FOR PUMPS P-2.3 & P-2.4	SLUDGE TRAILER GL C:5-6 SLUDGE TRAILER GL C:5-6	0.6	208 208	3	2.9	3C #12 AWG CU + #14 AWG CU BOND TECK CABLE 2C #12 AWG CU + #14 AWG CU BOND TECK CABLE	2P15	CTRL-P2.1/2.2 2A21,23	CTRL-P2.1,2 BREAKER	NOTE 6.
P-2.3	SUMP PUMP (REPLACING P-11)	HEADWORKS-LOWER GLA-B:2	0.5	208	1	6.5	2C #12 AWG CU + #14 AWG CU BOND TECK CABLE	ZP 15	CTRL-P2.3/2.4	CTRL-P2.3,4	NOTE 6.
P-2.4	SUMP PUMP (REPLACING P-12)	HEADWORKS-LOWER GLA-B:2	0.5	208	1	6.5	2C #12 AWG CU + #14 AWG CU BOND TECK CABLE	_	CTRL-P2.3/2.4	CTRL-P2.3,4	NOTE 6.
CTRL-P2.5/2.6	CONTROL PANEL FOR PUMPS P-2.5 & P-2.6	DAF TANKS GL E:4	_	208	1	_	2C #12 AWG CU + #14 AWG CU BOND TECK CABLE	2P15	2C18,20	BREAKER	
P-2.5	DUPLEX SUMP PUMP	DAF TANKS GL E:4-5	0.6	208	1	2.9	2C #12 AWG CU + #14 AWG CU BOND TECK CABLE	-	CTRL-P2.5/2.6	CTRL-P2.5,6	NOTE 6.
P-2.6	DUPLEX SUMP PUMP	DAF TANKS GL E:4-5	0.6	208	1	2.9	2C #12 AWG CU + #14 AWG CU BOND TECK CABLE	_	CTRL-P2.5/2.6	CTRL-P2.5,6	NOTE 6.
P-3.1	WATER SERVICE RECIRCULATION PUMP	NEW STAIRS, LOWER LEVEL	0.33	115	1	6	2C #12 AWG CU + #14 AWG CU BOND TECK CABLE	1P15	2C11	CMS	FUTURE PUMP
P-3.2	WATER SERVICE RECIRCULATION PUMP	NEW STAIRS, LOWER LEVEL	0.33	115	1	6	2C #12 AWG CU + #14 AWG CU BOND TECK CABLE	1P15	2C13	CMS	FUTURE PUMP
P-3.3 P-3.4	DHW RECIRC PUMP WS HEAT INJECTION	MECHANICAL ROOM NEW STAIRS, LOWER LEVEL	0.06	120	1 1	0.65	2C #12 AWG CU + #14 AWG CU BOND TECK CABLE 2C #12 AWG CU + #14 AWG CU BOND TECK CABLE	1P15 1P15	2A26 2C15	MMP/R/HOA MMP/R/HOA	<u>-</u>
P-3.5	HEAT INJECTION PUMP	NEW STAIRS, LOWER LEVEL	0.33	120 120	1	1.6	2C #12 AWG CU + #14 AWG CU BOND TECK CABLE	1P15	2C13	MMP/R/HOA	
CTRL-P4.1/4.2	CONTROL PANEL FOR PUMPS P-4.1 & P-4.2	SLUDGE TRAILER GL C:6	-	120	1	-	2C #12 AWG CU + #14 AWG CU BOND TECK CABLE	1P15	2A33	BREAKER	
P-4.1	FUEL OIL TRANSFER PUMP	SLUDGE TRAILER GL C:6	_	_	-	_	2C #12 AWG CU + #14 AWG CU BOND TECK CABLE	1P15	2A22	CTRL-P41,2	NOTE 6.
P-4.2	FUEL OIL TRANSFER PUMP	SLUDGE TRAILER GL C:6	_	_	_	_	2C #12 AWG CU + #14 AWG CU BOND TECK CABLE	1P15	2A24	CTRL-P41,2	NOTE 6.
	TEMPORARY RELOCATED FO TRANSFER PUMP	SLUDGE TRAILER GL C:6	_	120	1	_	2C #12 AWG CU + #14 AWG CU BOND TECK CABLE	1P15		_	TEMPORARILY RELOCATED EXISTING PUMP TO BE REPLACED BY P-4.1.
	TEMPORARY RELOCATED FO TRANSFER PUMP	SLUDGE TRAILER GL C:6	_	120	1	_	2C #12 AWG CU + #14 AWG CU BOND TECK CABLE	1P15		_	TEMPORARILY RELOCATED EXISTING PUMP TO BE
1111 1 1					'		2C #12 AWG CU + #14 AWG CU BOND TECK CABLE		OD8		REPLACED BY P-4.2.
UH-1.1 UH-1.2	EXISTING UNIT HEATER UH-9 EXISTING UNIT HEATER UH-10	HEADWORKS-LOWER GL B:2 HEADWORKS-LOWER GL B:3	0.05	120 120	1	4.4	2C #12 AWG CU + #14 AWG CU BOND TECK CABLE	1P15 1P15	2B8 2B4	MMP MMP	_
UH-1.4	UNIT HEATER	GENERATOR ROOM	0.05	120	1	1.6	2C #12 AWG CU + #14 AWG CU BOND TECK CABLE	1P15	2C10	MMP	
UH-1.5	EXISTING UNIT HEATER UH-1	SLUDGE TRAILER GL B:5	0.33	120	1	7.2	2C #12 AWG CU + #14 AWG CU BOND TECK CABLE	1P15	2A29	MMP	
UH-1.6	UNIT HEATER	DAF TANKS	0.05	120	1	1.6	2C #12 AWG CU + #14 AWG CU BOND TECK CABLE	1P15	2C12	MMP	
UH-1.7	VERTICAL UNIT HEATER	DISSOLVED AIR FLOTATION TANKS	0.05	120	1	1.6	2C #12 AWG CU + #14 AWG CU BOND TECK CABLE	1P15	2C16	MMP	
CUH-1.1	CABINET UNIT HEATER	NEW STAIRS	0.04	120	1	0.6	2C #12 AWG CU + #14 AWG CU BOND TECK CABLE	1P15	2C3	MMP	
UH-2.1	EXISTING UNIT HEATER UH-12	HEADWORKS-UPPER GL B:3	0.17	120	1	4.4	2C #12 AWG CU + #14 AWG CU BOND TECK CABLE	1P15	2B2	MMP	
UH-2.2	UNIT HEATER EXISTING UNIT HEATER UH-8	UPPER NEAR OFFICE GL D:2	0.05	120	1	1.6	2C #12 AWG CU + #14 AWG CU BOND TECK CABLE 2C #12 AWG CU + #14 AWG CU BOND TECK CABLE	1P15	2C25	MMP MMP	
UH-2.3 UH-2.4	EXISTING UNIT HEATER UH-8 EXISTING UNIT HEATER UH-4	ABOVE MBBR TANKS GL F:2	0.125	120 120	1	7.2	2C #12 AWG CU + #14 AWG CU BOND TECK CABLE	1P15 1P15	2B1 2B3	MMP	
UH-2.5	EXISTING UNIT HEATER UH-7	BELT FILTER PRESS	0.125	120	1	4.4	2C #12 AWG CU + #14 AWG CU BOND TECK CABLE	1P15	2A31	MMP	
UH-2.6	VERTICAL UNIT HEATER	DAF TANKS GRID E-F:5-6	0.05	120	1	1.6	2C #12 AWG CU + #14 AWG CU BOND TECK CABLE	1P15	2B27	MMP	
UH-2.7	EXISTING UNIT HEATER UH-6	UPPER CORRIDOR GL C:4	0.33	120	1	7.2	2C #12 AWG CU + #14 AWG CU BOND TECK CABLE	1P15	2B11	ММР	
AHU-2	MBBR & DAF AIR HANDLING UNIT	ABOVE MBBR CELLS		575	3		3C #12 AWG CU + #14 AWG CU BOND TECK CABLE	3P25	MCC-2	LRD	SINGLE POINT CONNECTION. 2 X 7.5 HP MOTORS
AHU-3 SF	EXISTING AHU SUPPLY FAN	EXISTING LOWER HEADWORKS	5	575	3	5.4	3C #12 AWG CU + #14 AWG CU BOND TECK CABLE	3P15	MCC-2	CMS/SFOA/LRD	EXISTING TWO SPEED MOTOR.
AHU-3 RF	EXISTING AHU RETURN FAN	EXISTING LOWER HEADWORKS	5	575	3	5.4	3C #12 AWG CU + #14 AWG CU BOND TECK CABLE	3P15	MCC-2	CMS/SFOA/LRD	EXISTING TWO SPEED MOTOR.
HRV-1	OFFICE/LAB HRV	ABOVE OFFICE GL C:3		120	1	2.1	2C #12 AWG CU + #14 AWG CU BOND TECK CABLE	1P15	2B13	MMP	
CF-1	MECHANICAL ROOM COOLING FAN ELECTRICAL ROOM COOLING FAN	MECHANICAL ROOM ELECTRICAL ROOM	0.25	120	1 1	5.8	2C #12 AWG CU + #14 AWG CU BOND TECK CABLE 2C #12 AWG CU + #14 AWG CU BOND TECK CABLE	1P15 1P15	2A28	MMP/R/HOA MMP/R/HOA	
CF-2 BMS	BUILDING MANAGEMENT SYSTEM	VARIES	0.25	120 120	1	5.8	2C #12 AWG CU + #14 AWG CU BOND TECK CABLE	1P15	2C23	BREAKER	
		THE STATE OF THE S		120	<u> </u>		20 11.2 7.11.0 00 1 11.1 11.10 00 00.12.11.0 11.201.	11.10		DIVE WEI	
	MENT TO BE REMOVED								, ·		
B-01	EXISTING BOILER	EXISTING BOILER ROOM		120	1	_	-				
B-02	EXISTING BOILER	EXISTING BOILER ROOM	_	120	1	_	-				
P-01 P-02	PRIMARY HOT WATER PUMP PRIMARY HOT WATER PUMP	EXISTING BOILER ROOM EXISTING BOILER ROOM		120 120	1						
P-03	SECONDARY HOT WATER PUMP	EXISTING BOILER ROOM	 	575	3						
P-04	SECONDARY HOT WATER PUMP	EXISTING BOILER ROOM	_	575	3	_	_				
P-5	GLYCOL FILL PUMP	EXISTING BOILER ROOM	_	120	1	_	-				
P-6	DOMESTIC COLD WATER PRESSURE PUMP	EXISTING BOILER ROOM	_	120	1	_	-				
P-5'	FUEL OIL TRANSFER PUMP	EXISTING GENERATOR ROOM	_	120	1	_	-				
P-6'	FUEL OIL TRANSFER PUMP	EXISTING GENERATOR ROOM	_	120	1	_	_				
P-7	SUMP PUMP (REPLACE WITH P-2.1)	SLUDGE TRAILER	_	120	1 1	_	-				
P-8 P-11	SUMP PUMP (REPLACE WITH P-2.2) SUMP PUMP (REPLACE WITH P-2.3)	SLUDGE TRAILER EXISTING LOWER HEADWORKS	0.375	120 120	1 1	7.2					
P-11	SUMP PUMP (REPLACE WITH P-2.4)	EXISTING LOWER HEADWORKS	0.375	120	1	7.2					
P-17	EFFLUENT WATER BOOSTER PUMP	MECHANICAL ROOM	5	575	3	6.1	_				
P-18	EFFLUENT WATER BOOSTER PUMP	MECHANICAL ROOM	5	575	3	6.1	-				
P-19	EFFLUENT WATER BOOSTER PUMP	MECHANICAL ROOM	5	575	3	6.1	-				
UH-2	EXISTING UNIT HEATER	GENERATOR ROOM		120	1		-				
UH-3	EXISTING UNIT HEATER	UPPER LEVEL GL F:5-6		120	1		_				
DHWH	DOMESTIC HOT WATER HEATER	ABOVE OLD PUMP POOM	_	120 575	1 7						
AHU-1 EF-05	AIR HANDLING UNIT EXHAUST FAN	ABOVE OLD PUMP ROOM WASHROOM GL C:3-4	_	575 120	1	_					
		1	1	, , , , ,	' '		1		1		

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CONTROL DEVICE LEGEND:

LRD — LOAD RATED DISCONNECT MAG — MAGNETIC STARTER CMS — COMBINATION MAGNETIC STARTER

WITH DISCONNECT MMP - MANUAL MOTOR PROTECTION

/R — WITH LOAD RATED RELAY /HOA - WITH H-O-A SWITCH

/SFOA - WITH SLOW-FAST-OFF-AUTO SWITCH

/SS - SOFT START
VFD - VARIABLE FREQUENCY DRIVE
TC - TEMPERATURE CONTROL

LC - LEVEL CONTROL

CB - STANDARD CIRCUIT BREAKER

MOTOR CONTROL AND EQUIPMENT NOTES:

MOTOR SCHEDULE IS FOR ESTIMATING PURPOSES ONLY. CONFIRM ALL MOTOR FULL LOAD CURRENTS WITH NAMEPLATES AND SIZE MOTOR DISCONNECTS, BREAKERS, FEEDERS AND OVERLOADS ACCORDINGLY.

2. CONFIRM MECHANICAL EQUIPMENT LOCATIONS WITH MECHANICAL DIVISION.

3. DIVISION 26 CONTRACTOR SHALL COORDINATE THE LOCATIONS OF ALL LINE VOLTAGE PILOT DEVICES WITH MECHANICAL DIVISION AND PROVIDE CONDUIT AND

4. PROVIDE POWER SUPPLY TO CONTROL TRANSFORMERS PROVIDED BY DIV 21. COORDINATE EXACT LOCATIONS OF POWER SUPPLY WITH MECHANICAL PRIOR TO ROUGH-IN.

5. PROVIDE POWER TO OTHER MECHANICAL EQUIPMENT AS SHOWN ON PANEL SCHEDULES.

6. DUPLEX AND TRIPLEX PUMPS PROVIDED WITH CONTROL PANEL SUPPLIED BY MECHANICAL, INSTALLED AND WIRED BY ELECTRICAL. CONTROL PANELS TO BE LOCATED ON SITE IN AN ACCESSABLE LOCATION WITHIN LINE—OF—SIGHT TO PUMPS.

7. WHERE REQUIRED BY C.E.C, PROVIDE LOCAL DISCONNECT AT EACH MOTOR LOCATION. PROVIDE EXPLOSION-PROOF DISCONNECT WHERE REQUIRED.

8. INFORMATION REGARDING EXISTING EQUIPMENT TO BE REMOVED HAS BEEN OBTAINED FROM PREVIOUS DESIGN DOCUMENTATION. CONFIRM ON SITE. INFORM

ENGINEER OF ANY DISCREPANCIES PRIOR TO COMMENCEMENT OF WORK.

9. REFER TO 2/E002 FOR INFORMATION REGARDING HAZARDOUS CLASSIFICATIONS AND, WET AND CORROSIVE CATEGORY LOCATIONS.

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General Notes

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Client/Project E CE

IQALUIT WASTEWATER TREATMENT PLANT UPGRADE/EXPANSION

City of Iqaluit, Nunavut

 KG
 KSS
 KSS
 18.05.23

 Dwn.
 Chkd.
 Dsgn.
 YY.MM.DD
 File Name:

Title BUILDING MECHANICAL MOTOR CONTROL AND EQUIPMENT SCHEDULE

Project No. 110126045	Scale AS SHOWN	
Drawing No.	Sheet	Revision
E606	21 of 23	0

Issued

ORIGINAL SHEET - ISO A1

0 ISSUED FOR CONSTRUCTION

					PANEL "A"						
		VOLTS:	120/208	3V	LOCATION: ELECTRICAL RO	OM 03	BUSS:	225A			
		PHASE:	3		FEEDER: EXISTING FROM 1	999	MOUN	TING: S	SURFACI	Ξ	
		WIRE:	4								
CCT	BRKR		WATTS		DESCRIPTION	DESCRIPTION	WATTS			BRKR	CC
		Α	В	С			А	В	С		
1	1P15	-			EXT. PLUG	BSMT LIGHT	_			1P15	2
3	1P15				EXT. PLUG	UNKNOWN		_		2P15	4
5	1P15			_	EXT. PLUG				_		6
7	1P15	_			GEN. HTR.	HEATER				1P15	8
9	1P15		-		SPARE	PLUGS		_		1P15	1
11	1P15			_	UH-1&2	AIR DRYER			_	1P15	1
13		_			SPARE	CIRCULATING PUMP #2	_			1P15	1
15	1P15		-		BOILER 1	CIRCULATING PUMP #3		_		1P15	1
17	1P15			_	BOILER 2	CIRCULATING PUMP #4			_	1P15	1
19	1P15	_			CIRCULATING PUMP #1	SPARE	_			1P15	2
21			_					_		1	2
23	2P20			_	GEN. BATT. CHARGER	DOMESTIC WATER PUMP			_	- 2P20	2
25		_			25.155		_			0070	2
27	2P20		_		SPARE	UNKNOWN		_		2P30	2
29	0000			_	00405	SPARE			_	1P15	3
31	2P20	_			SPARE	SPACE	_				3
33	2P15		_		LICUTS	PLUGS		_		1P15	3
35	7 2015			_	LIGHTS	PLUGS			_	1P15	3
37	2P20	_			BLOCK HEATER	SPACE	_				3
39	1 2 2 2 0		_		GENSET	SPARE		_		1P15	4
41	1P15			_	PLUG	UNKNOWN			_	2P15	4
43	1P15	_			U.H. 6&7	UNKNOWN	_			7 2015	4
45	1P15		_		U.H. 4&5&8	UNKNOWN		_		1P15	4
47	1P15			_	E.F.1	UNKNOWN			_	1P15	4
49	1P15	-			MEZZ PLUG	SPARE	_			1P15	5
51	2P15		_		UNKNOWN	SPARE		_		1P15	5
53	21 13			_	ONNIV	SPARE			_	1P15	5
55		_			UNKNOWN	SPARE	_			1P15	5
57	2P30 -		-		UNKNOWN	SPARE		_		1P15	5
59				_	3,11,10,111	SPARE			_	1P15	6
61	2P60 -	_			UNKNOWN	SPACE					6
63						SPACE		_			6
65				_	SPACE	SPACE	1		_		6
67		_			SPACE	SPACE					6
69			_		SPACE	SPACE		_			7
71				_	SPACE	SPACE	1		_		7
TO	TAL NOTES:	_	-					_	_	TO	TAL

					PANEL "2B"								
		VOLTS:	120/208	3V	LOCATION: ELECTRICAL ROO	OM 203	BUSS:	225A					
		PHASE:	.3		FEEDER: EXISTING FROM 2	005	MOUNTING: SURFACE						
		WIRE:			PEDEN. EXISTING PROMIZE		WOOTT	1110.	001117101	_			
		WIRE:	4										
CCT	BRKR		WATTS		_ DESCRIPTION DESCRIPTION		WATTS			BRKR	ССТ		
		Α	В	С			Α	В	С				
1	1P15	_			UH-10 (LOWER)	HOT FEW PUMPS	_			2P15	2		
3	2P30		_		SUMP PUMPS	HOT FEW PUMPS		_		7 2015	4		
5	250			_	SUMP FUMPS	EMERG LTS BATT PACK			_	1P15	6		
7	1P15	_			EXTERIOR LIGHTS	EMERG LTS BATT PACK	_			1P15	8		
9	1P15		_		UH-9 (LOWER)	RECEPTACLE LAB		_		1P15	10		
11	1P15			_	UNKNOWN	RECEPTACLE LAB			_	1P15	12		
13	1P15	_			UNKNOWN	RECEPTACLE LAB	_			1P15	14		
15	1P15		_		RECEPTACLE LOWER	UNKNOWN		_		1P15	16		
17	1P15			_	METAL ARC HALLWAY				_		18		
19	1P15	_			OFFICE	SALSNESS BLOWER FAN	_			3P15	20		
21	1P15		_		BATROOM & OFFICE			_		7	22		
23	1P15			_	HALLWAY	UNKNOWN			_	1P15	24		
25	1P15	_			UH-12 (UPPER)	PLUGS UPPER	_			1P15	26		
27	1P15		_		UNKNOWN	PLUGS UPPER		_		1P15	28		
29	1P15			_	PLC	OUTSIDE PLUG			_	1P15	30		
31	2P30	_			HOT WATER TANK DOMESTIC	BIONEST PUMP	-			2P20	32		
33	21 00		_		THE WATER THANK BOMESTIC			_		2, 20	34		
35	2P20			_	HOT WATER TANK	SPACE			_		36		
37		_			HOT WATER TANK		-			⅃ ┃	38		
39	2P20		_		HOT WATER TANK	PRESSURE WASHER				3P20	40		
41				_					_		42		
	NOTES:	_	_	_			_	_	_	TO	TAL		

					PANEL "6B"							
		VOLTS:	347/600	VC	LOCATION: ELECTRICAL RO	OOM 203	BUSS:	225A				
		PHASE:	3		FEEDER: EXISTING FROM 2	2005	MOUNTING: SURFACE					
		WIRE:								_		
		VVII\L.	<u> </u>									
CCT	BRKR		WATTS		DESCRIPTION	DESCRIPTION	WATTS			BRKR	ССТ	
001	DIVIVIO	Α	В	С		DESCRIPTION	Α	В	С		001	
1	1P15	_			SPARE	LIGHT UPPER	_			1P15	2	
3	1P15		_		SPARE	LIGHT LOWER		_		1P15	4	
5				_		LIGHT LAB, ELECTRICAL			_	1P15	6	
7	3P100	_			BOILER 60kW FEW	SPACE	_				8	
9			_			SPACE		_			10	
11				_	SPACE	SPACE			_		12	
13		_			SPACE	SPACE	_				14	
15			_		SPACE	SPACE		_			16	
17				_	SPACE	SPACE			_		18	
19		_			SPACE	SPACE	_				20	
21			_		SPACE	SPACE		_			22	
23				_	SPACE	SPACE			_		24	
25		_			SPACE	SPACE	_				26	
27			_		SPACE	SPACE		_			28	
29				_		SPARE			_	1P15	30	
31	3P30	_			HOIST	SPARE	_			1P15	32	
33			_			SPARE		_		1P15	34	
35	1P15			_	SPARE	SPARE			_	1P15	36	
37	1P15	_			SPARE		_]	38	
39	1P15		_		SPARE	TRANSFO 120/208*		_		3P60	40	
41	1P15			_	SPARE				_		42	
	TAL NOTES:	_	_	_			_	_	_	TO	TAL	

VOLTS: 120/208V LOCATION: SLUDGE TRAILER 109 BUSS: 225A PHASE: 3 MOUNTING: SURFACE FEEDER: SEE SINGLE LINE 2/E602 WIRE: 4 WATTS WATTS CCT BRKR DESCRIPTION BRKR CCT DESCRIPTION A B A B 1 1P15 EXT. PLUG BSMT LIGHT 3 1P15 EXT. PLUG 4 UNKNOWN 5 1P15 EXT. PLUG 7 1P15 GEN. HTR. HEATER 1P15 8 9 1P15 SPARE PLUGS 1P15 | 10 11 1P15 AIR DRYER 1P15 12 UH-1&2 CIRCULATING PUMP #2 13 SPARE 1P15 14 15 1P15 1P15 16 BOILER 1 CIRCULATING PUMP #3 17 1P15 1P15 18 CIRCULATING PUMP #4 BOILER 2 19 1P15 1P15 20 CIRCULATING PUMP #1 SPARE 21 23 2P20 _____ 2P20 |-22 24 GEN. BATT. CHARGER DOMESTIC WATER PUMP 25 27 29 31 26 SPARE 2P30 -UNKNOWN 28 1P15 30 SPARE SPARE SPACE 32 33 35 2P15 **PLUGS** 1P15 34 LIGHTS **PLUGS** - 1P15 36 37 39 2P20 BLOCK HEATER SPACE 38 **GENSET** SPARE 1P15 40 41 1P15 PLUG 42 2P15 -UNKNOWN 43 1P15 44 U.H. 6&7 45 1P15 U.H. 4&5&8 UNKNOWN 1P15 46 47 1P15 E.F.1 UNKNOWN 1P15 48 49 1P15 FUEL PUMP P-5 1P15 50 MEZZ PLUG 51 FUEL PUMP P-6 1P15 52 UNKNOWN 53 55 1P15 54 SPARE 1P15 56 UNKNOWN SPARE 57 1P15 58 SPARE UNKNOWN 1P15 60 59 61 62 SPACE UNKNOWN 63 64 SPACE 65 SPACE SPACE 66 67 SPACE SPACE 68 69 SPACE SPACE 70 71 72 SPACE SPACE

PANEL NOTES:

NEW TEMPORARY PANEL '2T' PROVIDED DURING CONSTRUCTION STAGE 1.

RE-CIRCUIT PANEL A LOADS TO PANEL '2T' PRIOR TO REMOVAL AND DISCONNECTION OF PANEL 'A'.

MINIMIZE INTERRUPTION TO SERVICES.

REPLACE EXISTING 3P50A TRANSFORMER TX-2 BREAKER WITH NEW 3P60A BREAKER.

PANEL "2T"

BREAKER TO BE COMPATIBLE WITH EXISTING PANELBOARD.

Revision

By Appd. YY.MM.DD

O ISSUED FOR CONSTRUCTION

KG KSS 18.05.23

Issued

By Appd. YY.MM.DD

General Notes

PERMIT TO PRACTICE

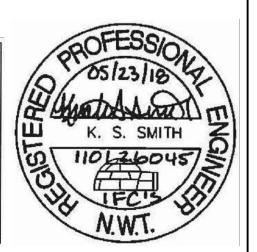
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NUNAMI STANTEC LTD.
Signature
Date 23 May 2018

PERMIT NUMBER: P 1117

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Client/Project lqaluit

TOTAL

IQALUIT WASTEWATER TREATMENT PLANT UPGRADE/EXPANSION

City of Iqaluit, Nunavut

 File Name:
 KG
 KSS
 KSS
 18.05.23

 Dwn.
 Chkd.
 Dsgn.
 YY.MM.DD

EXISTING PANELS SCHEDULES

Project No.
110126045

Drawing No.

E607

Scale

AS SHOWN

Revision

22 of 23

0

TOTAL

					PANEL '2A'							
		VOLTS:	120/208	3V	LOCATION: MECHANICAL RC	OM 211	BUSS:	225A				
		PHASE:			FEEDER: REFER TO SINGLE		MOUNTING: SURFACE					
					FEEDER: REFER TO SINGLE	LINE 1/E003	MOON	IIING: S	OKFACE	_		
		WIRE:	4									
			WATTS				WATTS					
CCT	BRKR	A	В	С	DESCRIPTION	DESCRIPTION	A	В	С	BRKR	CC	
1		186					186				2	
3	3P15	,,,,,	186		- B–1	B-2	100	186		3P15	4	
5				186	1				186		ϵ	
7		250					250				8	
9	3P15		250		P-1.1	P-1.2		250		3P15	1(
11	1			250]				250	1	1:	
13		500					500				1	
15	3P15		500		P-1.3	P-1.4		500		3P15	1	
17				500					500		1	
19	1P15	93			DHWH-1	P-1.5	_			1P15	2	
21	2P15		372		CONTROL PANEL FOR P-2.3 &	P-4.1		150		1P15	2	
23	21 13			372	P-2.4	P-4.2			150	1P15	2	
25	1P15	500			OVERHEAD DOOR	P-3.3	45			1P15	2	
27	1P15		500		OVERHEAD DOOR	CF-1		186		1P15	2	
29	1P15			250	UH-1.5	CONTROL PANEL FOR B-1			_	1P15	3	
31	1P15	93			UH-2.5	CONTROL PANEL FOR B-2	-			1P15	3	
33	1P15		-		CONTROL PANEL FOR P-4.1 & P-4.2	BOILER ROOM REC		125		1P15	3	
35			_		SPACE	SLUDGE TRAILER REC			125	1P15	3	
37				-	SPACE	POLYMER STORAGE AREA REC	250			1P15	3	
39			_		SPACE	SPACE		_		1P15	4	
41					SPACE	SPACE			_		4	
43		-			SPACE	SPACE	_				4	
45			_		SPACE	SPACE		_			4	
47					SPACE	SPACE			_		4	
49 51		_			SPACE	SPACE	_				5	
51 53	-		_		SPACE SPACE	SPACE SPACE		_	_		5 5	
55 55	1P15				SPACE	SPACE SPARE	_			1P15	5	
55 57	1P15	_	_		SPARE	SPARE	_	_		1P15	5	
59	1P15				SPARE	SPARE			_	1P15	6	
	TAL	1622	1808	1558	JI AILE	SI AILE	1231	1397	1211		TAL	
	SE A TO		2853			<u> </u>	1 .201		,211	1 10	., _	
	SE B TO		3205									
	SE C TO		2769			25	38					
					@120/209 VOLTS 7 DUASE	25						
NEL	NEL TOTA	AL =	8827		@120/208 VOLTS 3 PHASE		AMPS					

EXISTING PANEL '4A'

VOLTS: 277/480

A B C

370

125

370

125

18252

125

370

125

PHASE: 3

WIRE: 4

370

125

370

125

TOTAL – – PHASE A TOTAL = 6084 PHASE B TOTAL = 6084 PHASE C TOTAL = 6084

PANEL TOTAL =

CCT BRKR

23

37 1P15

39 1P15

41 1P15

PANEL NOTES:

LOCATION: ELECTRICAL ROOM 203

DESCRIPTION

PF-01-310

PF-01-330

PF-01-320

PF-01-340

SPACE

SPACE

SPACE

SPACE SPACE

SPARE

SPARE

SPARE

@277/480 VOLTS 3 PHASE

FEEDER: REFER TO SINGLE LINE 1/E603

DESCRIPTION

B-02-210

F-02-215

B-02-220

F-02-225

SPACE

SPACE

SPACE SPACE

SPACE

SPARE

SPARE

SPARE

22

General Notes

		VOLTS:	120/208	3V	LOCATION: ELECTRICAL ROO	M 203	BUSS:	225A				
		PHASE:	3		FEEDER: REFER TO SINGLE	LINE 1/E603	MOUNTING: SURFACE					
		WIRE:	4									
ССТ	BRKR		WATTS		DESCRIPTION	DESCRIPTION	WATTS			BRKR	CC	
		Α	В	С]	2233,	А	В	С]		
1	1P15	93			UH-2.3	UH-2.1	195			1P15	2	
3	1P15		500		UH-2.4	UH-1.2		60		1P15	4	
5				125		FIRE ALARM				1P15	6	
7	3P15	125			P-1.6	UH-1.1	37			1P15	8	
9] [125		Ι Γ	RECEPTACLE LAB		500		1P15	10	
11	1P15			246	UH-2.7	RECEPTACLE LAB			500	1P15	12	
13	1P15	_			HRV-1	RECEPTACLE LAB	500			1P15	14	
15	1P15		125		RECEPTACLE LOWER	DADIVINO DEO		1200		0045	16	
17	1P15		125	-	RECEPTACLE LOWER	PARKING REC			1200	2P15	18	
19	1P15	_			OFFICE	5.5	1200			1	20	
21	1P15		_		OFFICE/WASHROOM	PARKING REC		1200		2P15	22	
23	1P15			125	RECEPTACLE UPPER	5.5			1200	25.45	24	
25	1P15	125			RECEPTACLE LOWER	PARKING REC	1200			2P15	26	
27	1P15		37		UH-2.6	RECEPTACLE UPPER		125		1P15	28	
29				300		RECEPTACLE UPPER			125	1P15	30	
31	3P15	300			CONTROL PANEL FOR P-2.1 & P-2.2	SPACE	_				32	
33			300		1 2.2	SPACE		1			34	
35				_	SPACE	SPACE			_		36	
37	1P15	_			SPARE	SPARE	_			1P15	38	
39	1P15		_		SPARE	SPARE		-		1P15	40	
41	1P15			1	SPARE	SPARE			1	1P15	42	
TO	TAL	_	-	-			-	_	-	ТО	TAL	
PHA	SE A TOT	AL =	3775									
PHA	SE B TOT	AL =	4297									
PHA	SE C TOT	AL =	3821			33	52					
PA	NEL TOTA	L =	11893		@120/208 VOLTS 3 PHASE		AMPS					

					_	
BUSS:	225A					
MOUN ⁻	TING: S	URFACE				
	WATTS		BRKR	ССТ		C
Α	В	С		001		
2485				2	1	
	2485		3P35	4	†	
		2485	1 1	6	†	
62				8	1	.
	62		3P15	10	1	
		62	1	12	†	
2485				14	1	-
	2485		3P35	16	†	
		2485	1	18	†	
62		2100		20	†	1
- 02	62		3P15	22	-	1
	02	62	-	24	†	
				26	†	1
	_			28	†	
		_		30	†	1
_				32	†	1
	_			34	1	2
		_		36	1	2
_			1P15	38	1	2
	_		1P15	40	1	2
		_	1P15	42	1	2 2 3
_	_	_	TO	TAL	1	
			ı		1	
					1	3
34					1	3
AMPS					1	4
					†	
					1	
						L

		VOLTS:	347/600	V	EXISTING PANEL '6B' LOCATION: ELECTRICAL ROO	OM 203	BUSS.	225A			
			•	•						_	
		PHASE: WIRE:			FEEDER: REFER TO SINGLE	LINE 1/E003	MOUN	TING: S	ORFACE	<u>-</u>	
ССТ	BRKR		WATTS		DESCRIPTION	DESCRIPTION		WATTS		BRKR	CC.
		Α	В	С	1		Α	В	С		
1	1P15	440			ELECTRICAL ROOM 1 LTG & BP#3	HEADWORKS BUILDING LTG & BP#2	460			1P15	2
3	1P15		800		POLYMER STORAGE AREA, PRESS ROOM, MBBR TANKS LTG & BP#7	LOWER HEADWORKS LTG & BP#1		650		1P15	4
5				_	SPACE	ELECTRICAL ROOM 2, LAB, W.R., OFFICE LIGHT & BP# 6			400	1P15	6
7		_			SPACE	EXIT SIGNS LIGHTS	80			1P15*	8
9			_		SPACE	SPARE		_		1P15	10
11				_	SPACE	SPACE			_		12
13		-			SPACE	BOILER, GENERATOR MECH 2 ROOM, SLUDGE TRAILER LTG & BP#4	660			1P15	14
15			_		SPACE	DISSOLVED AIR FLOTATION TANKS LTG & BP#5		640		1P15	16
17				_	SPACE	SPACE			_		18
19		_			SPACE	SPACE	_				20
21			-		SPACE	SPACE		_			22
23				_	SPACE	SPACE			_		24
25		_			SPACE	SPACE	_				26
27			-		SPACE	SPACE		_			28
29					SPACE	SPACE			_		30
31					SPACE	SPACE					32
33	1015		_		SPACE	SPACE		-		1015	34
35 37	1P15 1P15				SPARE SPARE	SPARE SPARE			_	1P15 1P15	36 38
37 39	1P15		_		SPARE	SPARE				1P15	40
41	1P15			_	SPARE	SPARE		_	_	1P15	42
	TAL				2.7.1.2	2					TAL
	SE A TOT	AL =	1640		1				l	1	
	SE B TOT		2090								
	SE C TOI		400			4	6				
	NEL TOTA		4130		@347/600 VOLTS 3 PHASE	·	AMPS				
ANEL	NOTES:			IS TO BE	LOCKED IN THE 'ON' POSITION A	ND TO SERVE NO OTHER LOADS.					

					PANEL '2C'						
		VOLTS:	120/208	BV	LOCATION: GENERATOR RO	OM 112	BUSS:	100A			
		PHASE:	3		FEEDER: REFER TO SINGLE	I LINE 1/E603	MOUNTING: SURFACE				
		WIRE:	4								
ССТ	BRKR		WATTS		DESCRIPTION	DESCRIPTION		WATTS		BRKR	2 0
00.		Α	В	С	7		Α	В	С] " "	`
1	1P15	250			LOWER REC	GEN RM REC	125			1P15	
3	1P15		125		CUH-1.1	GEN BATT CHARGER		500		1P15	
5 7	2P15	125		125	OUTSIDE RECEPTACLE	GEN BLOCK HEATER	1000		1000	2P25	
9	1P15		125		MECH RM 2 REC	UH-1.4		37		1P15	
11	1P15			246	P-3.1	UH-1.6			37	1P15	
13	1P15	246			P-3.2	DISSOLVED AIR FLOTATION TANKS LOWER REC	250			1P15	
15	1P15		246		P-3.4	UH-1.7		37		1P15	
17	1P15			246	P-3.5	CONTROL PANEL FOR P-2.5 &			440	2P15	
19	1P15	125			RECEPTACLE	P-2.6	400] 2015	
21	1P15		250		ELECTRICAL RM REC	SPACE		_			
23	1P15			186	CF-2	SPACE			_		
25	1P15	37			UH-2.2	SPACE	_				
27	1P15		250		DISSOLVED AIR FLOTATION TANKS UPPER REC	SPACE		-			
29	1P15			37	UH-2.6	SPACE			_		
31		_			SPACE	SPACE					
33			_		SPACE	SPACE		_			
35	1515			_	SPACE	SPACE			_	1515	
37 39	1P15	_			SPARE	SPARE	_			1P15 1P15	
41	1P15 1P15		_	 _	SPARE SPARE	SPARE SPARE		_	_	1P15	\vdash
	TAL	783	996	840	SFARE	STAILE	1775	574	1477	_	L TAL
	SE A TO		2558		I		1,,,,	1 0/ +	1 1777		
	SE B TO		1570								_
	SE C TO		2317			18	28				
	NEL TOT		6445		@120/208 VOLTS 3 PHASE		AMPS				

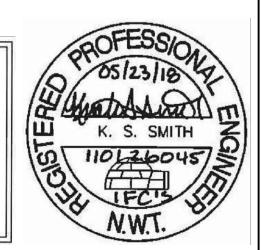
Appd. YY.MM.DD Revision
 KG
 KSS
 18.05.23

 By
 Appd.
 YY.MM.DD
 0 ISSUED FOR CONSTRUCTION Issued

Permit-Seal

PERMIT TO PRACTICE NUNAMI STANJEC LTD. 23 MAY 2018

PERMIT NUMBER: P 1117 NT/NU Association of Professional Engineers and Geoscientists
110126045





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Client/Project Iqaluit ۵۰۵۵ کا

IQALUIT WASTEWATER TREATMENT PLANT UPGRADE/EXPANSION

City of Iqaluit, Nunavut

KG KSS KSS 18.05.23

Dwn. Chkd. Dsgn. YY.MM.DD File Name:

Scale Project No. AS SHOWN 110126045 Drawing No. Revision E608 23 of 23 0

NEW PANELS SCHEDULES