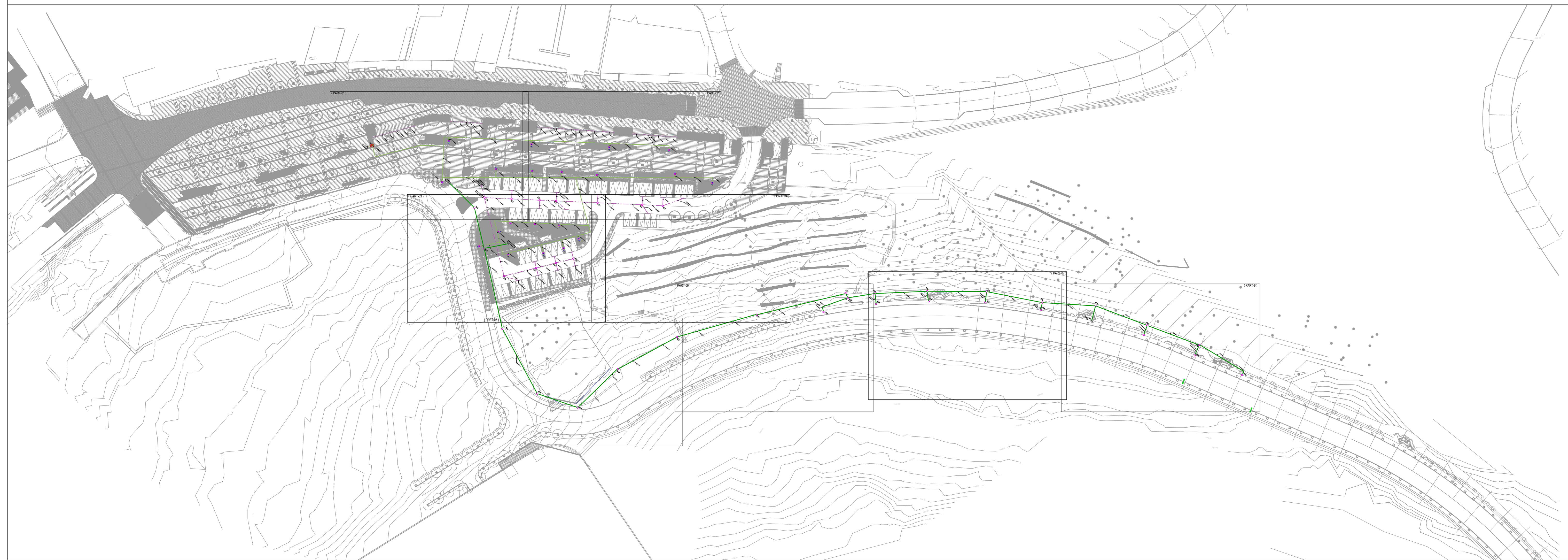


MECHANICAL LIST OF DRAWINGS				
PROJECT NAME:		WADI MOSA		
DRAWING NO.	DRAWING TITLE		SCALE	REVISION
1	M0G01-GNRL-LIST-R00	MECHANICAL LIST OF DRAWINGS	N.T.S.	R00
2	M0G02-GNRL-LGND-R00	MECHANICAL GENERAL LEGEND & NOTES	N.T.S.	R00
GENERAL SITE				
1	M0G03-GNRL-SITEL-R00	SITE PLAN MECHANICAL SERVICES LAYOUT(OVER ALL)	1:800	R00
2	M0G04-GNRL-SITEL-R00	SITE PLAN MECHANICAL SERVICES LAYOUT (PART-1)	1:100	R00
3	M0G05-GNRL-SITEL-R00	SITE PLAN MECHANICAL SERVICES LAYOUT (PART-2)	1:100	R00
4	M0G06-GNRL-SITEL-R00	SITE PLAN MECHANICAL SERVICES LAYOUT (PART-3)	1:100	R00
5	M0G07-GNRL-SITEL-R00	SITE PLAN MECHANICAL SERVICES LAYOUT (PART-4)	1:100	R00
6	M0G08-GNRL-SITEL-R00	SITE PLAN MECHANICAL SERVICES LAYOUT (PART-5)	1:100	R00
7	M0G09-GNRL-SITEL-R00	SITE PLAN MECHANICAL SERVICES LAYOUT (PART-6)	1:100	R00
8	M0G10-GNRL-SITEL-R00	SITE PLAN MECHANICAL SERVICES LAYOUT (PART-7)	1:100	R00
HVAC SYSTEM				
1	M1001-HVAC-GFL-R00	GROUND FLOOR HVAC SYSTEM LAYOUT (OVER ALL)	1:800	R00
2	M1002-HVAC-GFL-R00	GROUND FLOOR HVAC SYSTEM LAYOUT (PART-1)	1:100	R00
3	M1003-HVAC-GFL-R00	GROUND FLOOR HVAC SYSTEM LAYOUT (PART-2)	1:100	R00
4	M1004-HVAC-GFL-R00	GROUND FLOOR HVAC SYSTEM LAYOUT (PART-3)	1:100	R00
DRAINAGE SYSTEM				
1	P1001-DRAN-GFL-R00	GROUND FLOOR DRAINAGE SYSTEM LAYOUT (OVER ALL)	1:800	R00
2	P1002-DRAN-GFL-R00	GROUND FLOOR DRAINAGE SYSTEM LAYOUT (PART-1)	1:100	R00
3	P1003-DRAN-GFL-R00	GROUND FLOOR DRAINAGE SYSTEM LAYOUT (PART-2)	1:100	R00
4	P1004-DRAN-GFL-R00	GROUND FLOOR DRAINAGE SYSTEM LAYOUT (PART-3)	1:100	R00
WATER SYSTEM				
1	P2001-WATR-GFL-R00	GROUND FLOOR WATER SYSTEM LAYOUT (OVER ALL)	1:800	R00
2	P2002-WATR-GFL-R00	GROUND FLOOR WATER SYSTEM LAYOUT (PART-1)	1:100	R00
3	P2003-WATR-GFL-R00	GROUND FLOOR WATER SYSTEM LAYOUT (PART-2)	1:100	R00
4	P2004-WATR-GFL-R00	GROUND FLOOR WATER SYSTEM LAYOUT (PART-3)	1:100	R00
TOILET PLAN				
HVAC SYSTEM				
1	M1005-HVAC-GFL-R00	GROUND FLOOR HVAC SYSTEM LAYOUT	1:500	R00
DRAINAGE SYSTEM				
1	P1005-DRAN-GFL-R00	GROUND FLOOR DRAINAGE SYSTEM LAYOUT	1:500	R00
WATER SYSTEM				
1	P2005-WATR-GFL-R00	GROUND FLOOR WATER SYSTEM LAYOUT	1:500	R00
PROJECT DATE		MONTH	MAY	
		YEAR	2023	

SEWAGE MANHOLES SCHEDULE													
1	2	3	4	5	6	7	8	9	10	COVER			
										COVER SIZE (mm)	COVER TYPE	COVER SEAL	BEARING TYPE
SMH-01	1	160mm	1031.10	1030.5000	1030.35	1	1	Ø600	0.60	Ø600	1	2	3
SMH-02	1	160mm	1030.20	1029.6000	1029.45	1	1	Ø600	0.60	Ø600	1	2	3
SMH-03	1	160mm	1028.56	1027.9600	1027.81	1	1	Ø600	0.60	Ø600	1	2	3
SMH-04	1	160mm	1027.06	1026.4600	1026.31	1	1	Ø600	0.60	Ø600	1	2	3
SMH-05	1	160mm	1025.46	1024.8600	1024.71	1	1	Ø600	0.60	Ø600	1	2	3
SMH-06	1	160mm	1026.16	1025.5600	1025.41	1	1	Ø600	0.60	Ø600	1	2	3
SMH-07	1	160mm	1025.86	1025.2600	1025.11	1	1	Ø600	0.60	Ø600	1	2	3
SMH-08	1	160mm	1025.86	1025.2600	1025.11	1	1	Ø600	0.60	Ø600	1	2	3
SMH-09	1	160mm	1025.58	1024.9800	1024.83	1	1	Ø600	0.60	Ø600	1	2	3
SMH-10	1	160mm	1020.60	1020.0000	1020.85	1	1	Ø600	0.60	Ø600	1	2	3
SMH-11	1	160mm	1029.00	1028.4000	1028.25	1	1	Ø600	0.60	Ø600	1	2	3
SMH-12	1	160mm	1027.40	1026.8000	1026.65	1	1	Ø600	0.60	Ø600	1	2	3
SMH-13	1	160mm	1026.65	1026.0500	1025.90	1	1	Ø600	0.60	Ø600	1	2	3
SMH-14	1	160mm	1026.03	1025.4300	1025.28	1	1	Ø600	0.60	Ø600	1	2	3
SMH-15	1	160mm	1025.63	1025.0300	1024.88	1	1	Ø600	0.60	Ø600	1	2	3
SMH-16	1	160mm	1025.43	1024.8300	1024.68	1	1	Ø600	0.60	Ø600	1	2	3
SMH-17	1	160mm	1025.33	1024.7300	1024.58	1	1	Ø600	0.60	Ø600	1	2	3
SMH-18	1	160mm	1025.00	1024.4000	1024.25	1	1	Ø600	0.60	Ø600	1	2	3
SMH-19	1	160mm	1023.98	1023.38	1023.23	1	1	Ø900	1.02	Ø600	1	2	3
SMH-20	1	160mm	1025.00	1024.4000	1024.25	1	1	Ø900	1.41	Ø600	1	2	3
SMH-21	1	160mm	1025.00	1024.4000	1024.25	1	1	Ø1200	1.73	Ø900	1	2	3
SMH-22	1	160mm	1022.00	1021.4000	1021.25	1	1	Ø600	0.60	Ø600	1	2	3
SMH-23	1	160mm	1016.00	1015.4000	1015.25	1	1	Ø600	0.60	Ø600	1	2	3
SMH-24	1	160mm	1008.10	1007.5000	1007.35	1	1	Ø600	0.60	Ø600	1	2	3
SMH-25	1	160mm	1005.00	1004.4000	1004.25	1	1	Ø600	0.60	Ø600	1	2	3
SMH-26	1	160mm	1002.30	1001.7000	1001.5500	1	1	Ø600	0.60	Ø600	1	2	3

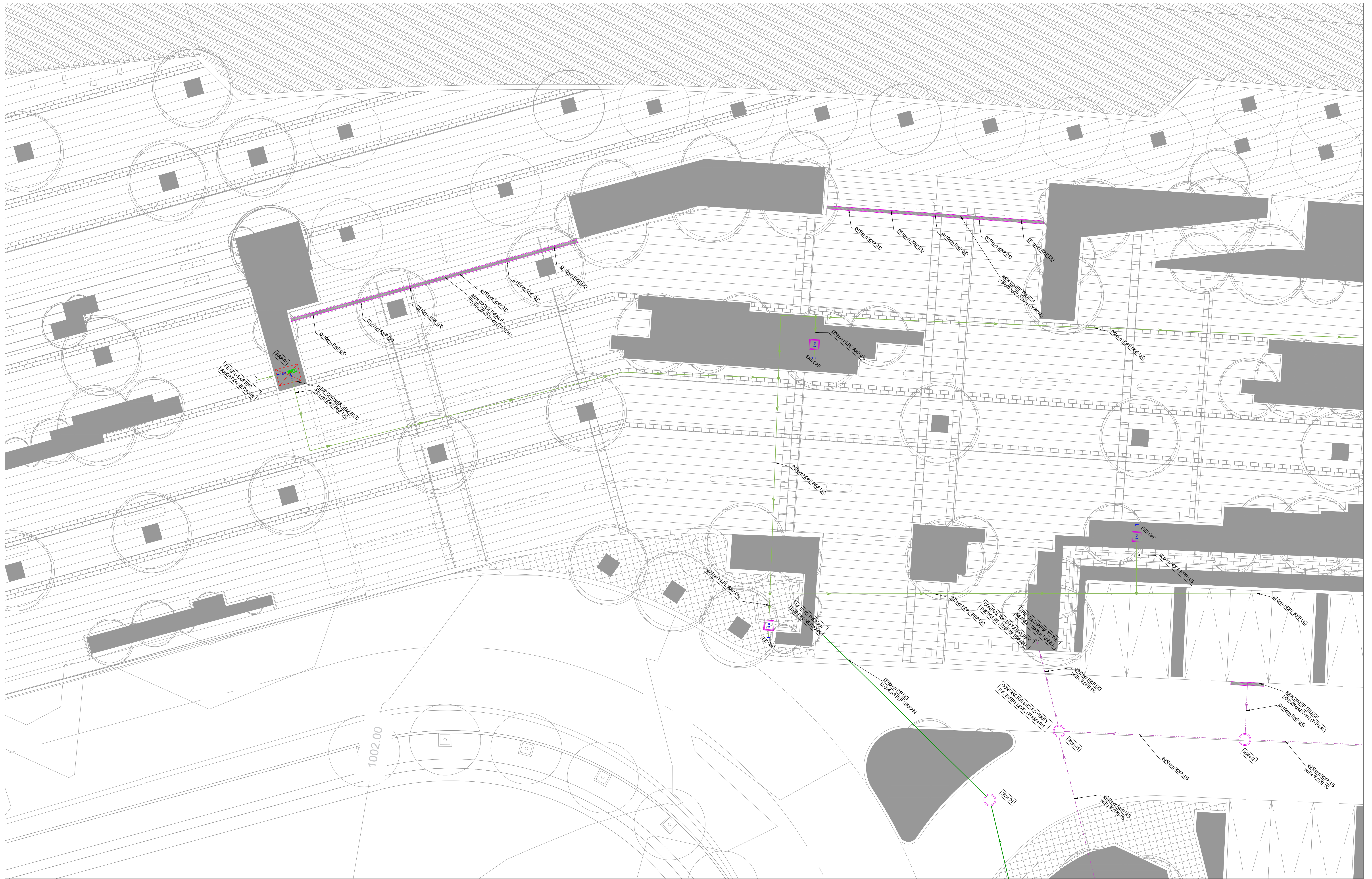
RAINWATER MANHOLES SCHEDULE													
1	2	3	4	5	6	7	8	9	10	COVER			
										COVER SIZE (mm)	COVER TYPE	COVER SEAL	BEARING TYPE
RMH-01	1	160mm	1008.62	1008.0200	1007.87	1	1	Ø600	0.60	Ø600	1	2	3
RMH-02	1	160mm	1008.24	1007.6400	1007.49	1	1	Ø600	0.60	Ø600	1	2	3
RMH-03	1	160mm	1007.47	1006.8700	1006.72	1	1	Ø600	0.60	Ø600	1	2	3
RMH-04	1	160mm	1006.71	1006.1100	1005.96	1	1	Ø600	0.60	Ø600	1	2	3
RMH-05	1	160mm	1005.33	1004.7300	1004.58	1	1	Ø600	0.60	Ø600	1	2	3
RMH-06	1	160mm	1005.95	1005.3500	1005.20	1	1	Ø600	0.60	Ø600	1	2	3
RMH-07	1	160mm	1009.35	1008.7500	1008.60	1	1	Ø600	0.60	Ø600	1	2	3
RMH-08	1	160mm	1009.65	1009.0500	1008.90	1	1	Ø900	1.02	Ø600	1	2	3
RMH-09	1	160mm	1009.65	1009.0500	1008.90	1	1	Ø900	1.15	Ø600	1	2	3
RMH-10	1	160mm	1009.90	1009.3000	1009.15	1	1	Ø1200	1.58	Ø900	1	2	3
RMH-11	1	160mm	1005.85	1005.2500	1005.10	1	1	Ø600	0.66	Ø600	1	2	3

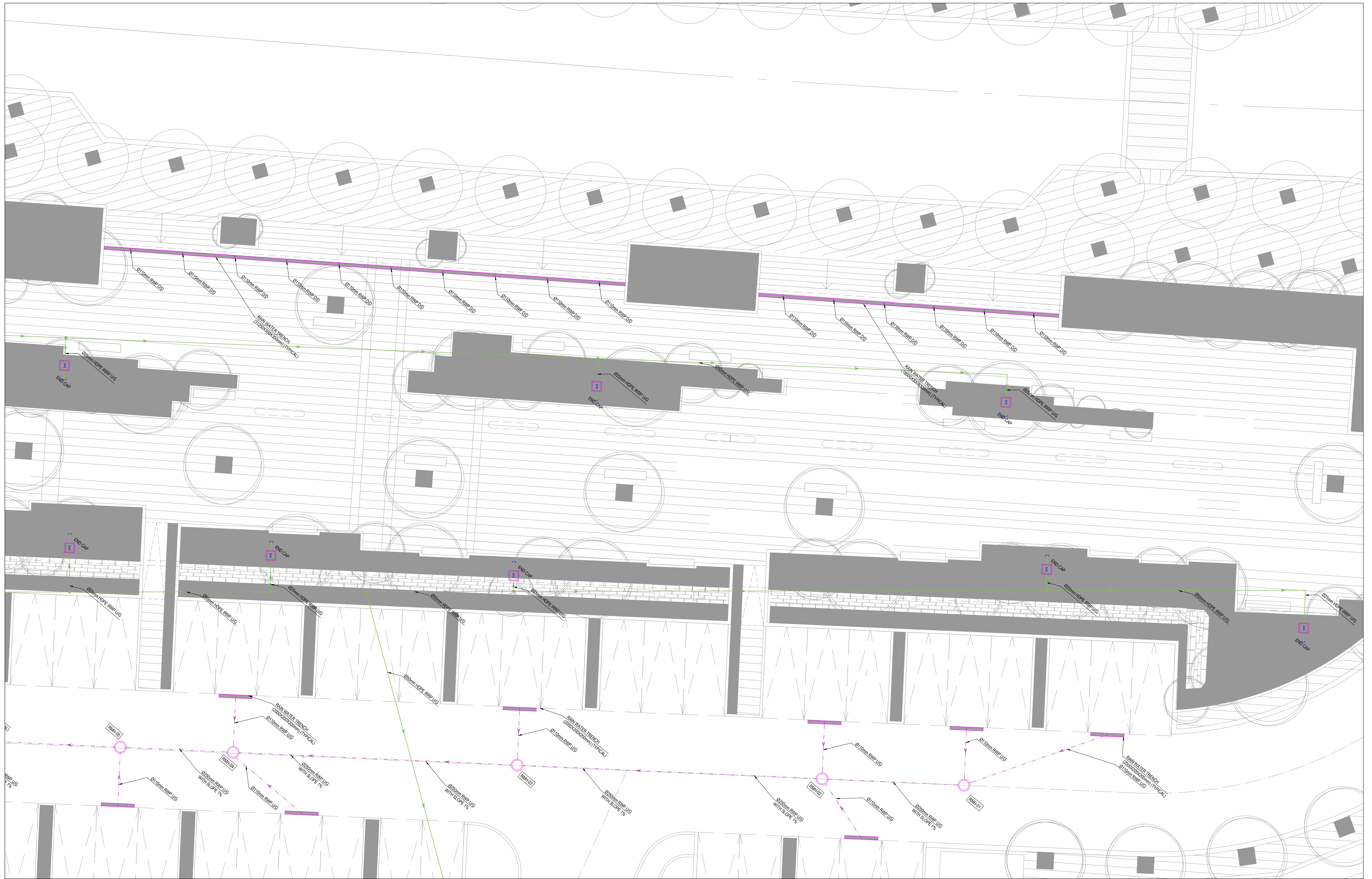
DRAIN TYPE COL 2: 1 FOUL WATER 2 RAIN WATER	CHAMBER TYPE COL 7: 1 CONCRETE CHANNEL 2 UPVC CHANNEL	MH CONSTRUCTION TYPE COL 8: 1 INSTU CONCRETE 2 PRE-CAST CONCRETE RING	COVER TYPE COL 12: 1 GALVANIZED STEEL RECESSED WITH FLOOR FINISH MATCHING SURROUNDING 2 CAST IRON 3 6mm GALVANIZED STEEL CHECKERED PLATE	COVER SEAL COL 13: 1 SINGLE SEAL 2 DOUBLE SEAL	BEARING TYPE COL 14: 1 LIGHT 2 MEDIUM 3 HEAVY
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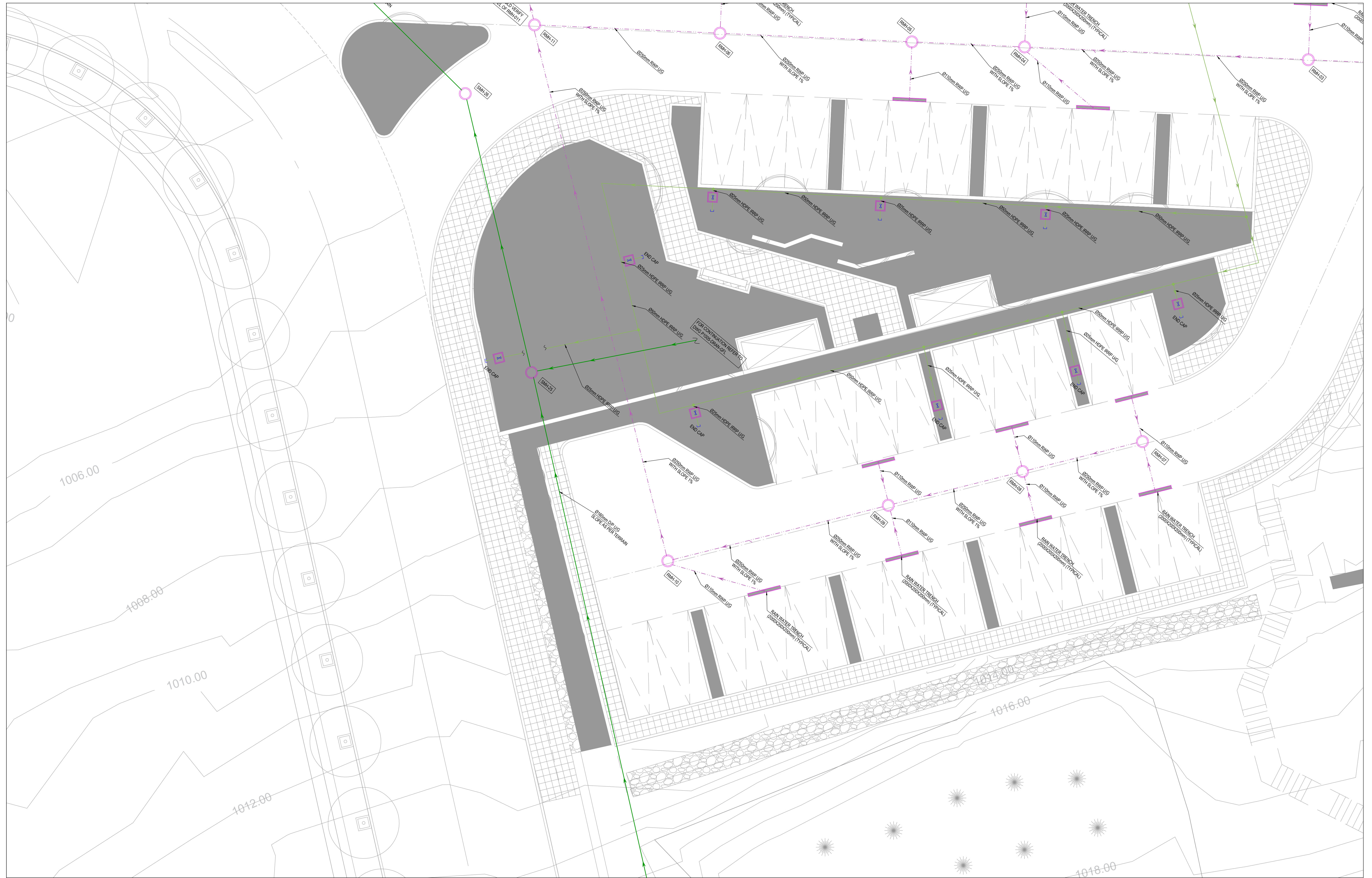


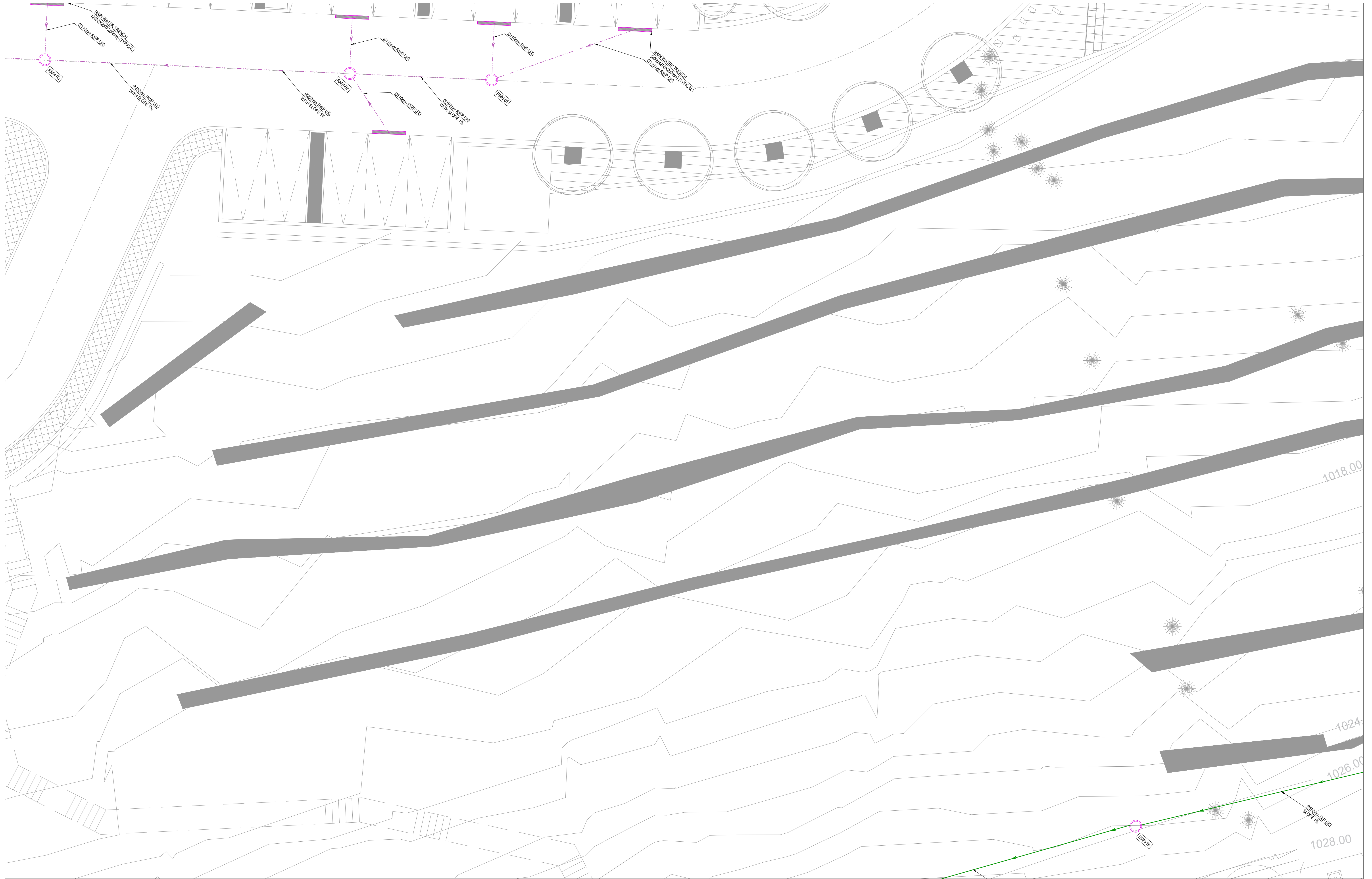
DOMESTIC WATER PUMP SCHEDULE																							
REF.	DESCRIPTION	LOCATION	FLOW (L/s)	HEAD (m)	ELECTRICAL DATA								QUANTITY			TYPE	PUMPS MATERIAL			INSTALLATION AND IP RATING	MAXIMUM AMBIENT TEMPERATURE (°C)	MAXIMUM LIQUID TEMPERATURE (°C)	REMARKS
					CONTROL METHOD	MOTOR SPEED (RPM)	MOTOR POWER (kW)	MOTOR EFFICIENCY (%)	MOTOR INSULATION CLASS	PHASE (Ø)	FREQUENCY (Hz)	VOLT (V)	DUTY	STAND BY	TOTAL		CASING / HOUSING	IMPELLER	SHAFT				
IRR01	IRRIGATION WATER PUMP	PUMP ROOM	1.50	25.0	CONTROL PANEL	2900	0.7 - 0.7	IE3	F	1	50	230	1	-	1	VARIABLE SPEED PACKAGED VERTICAL MULTISTAGE CENTRIFUGAL BOOSTER PUMP SET	CAST IRON	STAINLESS STEEL	STAINLESS STEEL	OUTDOOR (IP54)	45	40	-WITH PRESSURE VESSEL CAPACITY IN ACCORDANCE WITH MANUFACTURER RECOMMENDATION -CONTROL PANEL FROM THE SAME MANUFACTURER -WITH BUILT-IN VARIABLE FREQUENCY DRIVE (VFD) -WITH DRY RUN PROTECTION -SELF PRIMING WITH FOOT CHECK VALVE -WITH RAIN WATER CANOPY

NOTES:
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 ** THE POWER CONSUMPTION IN (kW) SHOWN IN THE DESIGN SCHEDULES IS BASED ON PRELIMINARY EQUIPMENT SELECTION, ACTUAL POWER CONSUMPTION AND NOMINAL RATING SHOULD BE VERIFIED BY THE CONTRACTOR BASED ON FINAL EQUIPMENT SELECTION. ANY VARIANT IN POWER CONSUMPTION RATE SHALL BE CONSIDERED AT NO ADDITIONAL COST.









KHAMMASH ARCHITECTS

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E-mail: kh@khammash.com

CLIENT
Petra Development & Tourism Region Authority
ADDRESS
Wadi Musa, JORDAN

PROJECT
Wadi Musa Plaza
ADDRESS
Wadi Musa, JORDAN

STATUS
TENDER
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NOTES

ISSUE DATE	AMENDMENT	CHECKED

DRAWN
ENG. Z. ABDEEN
CHECKED
ENG. Z. ABDEEN

NORTH

SCALE
1:100

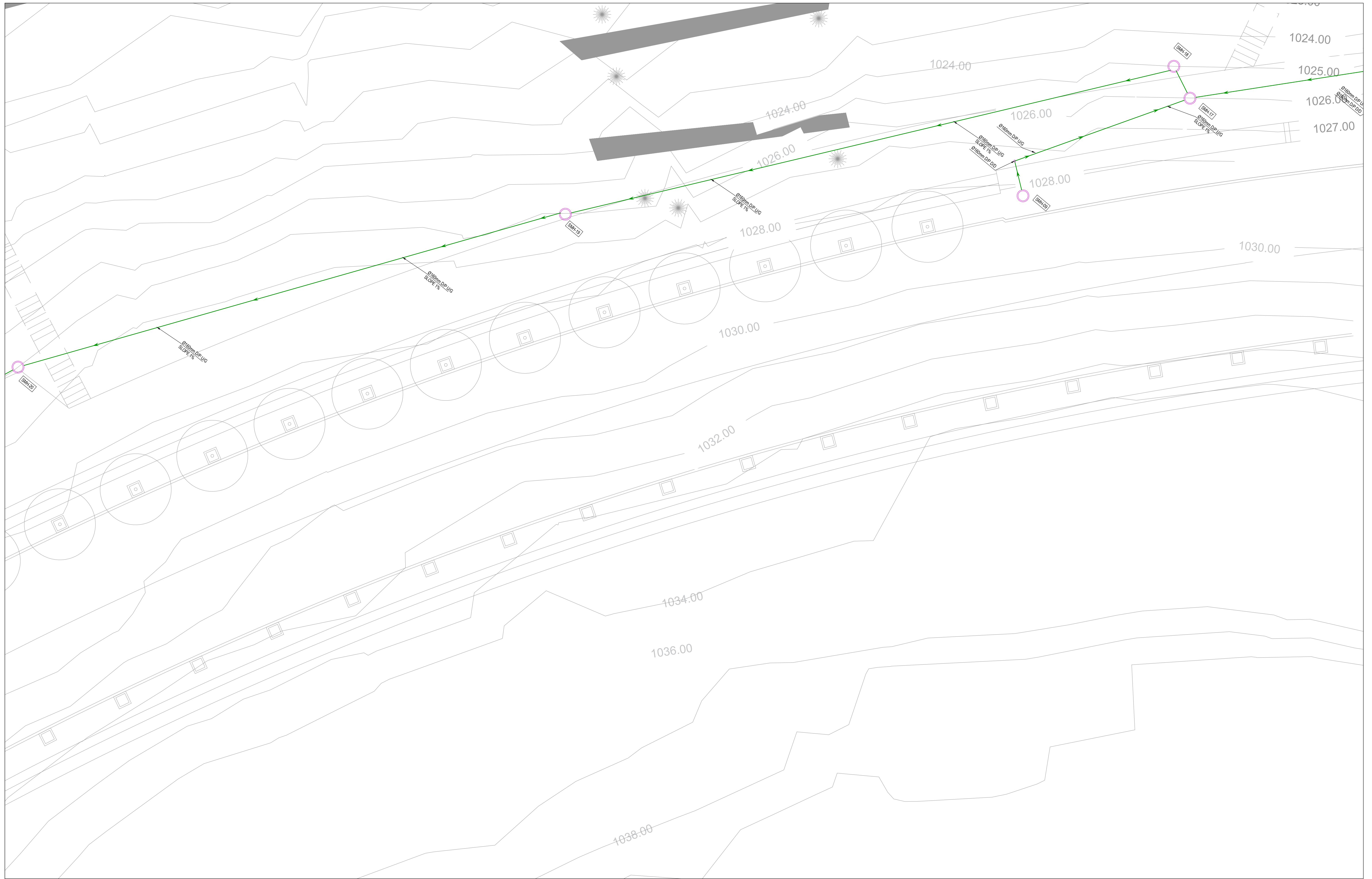
APPROVED
ENG. S. AL-KURDI

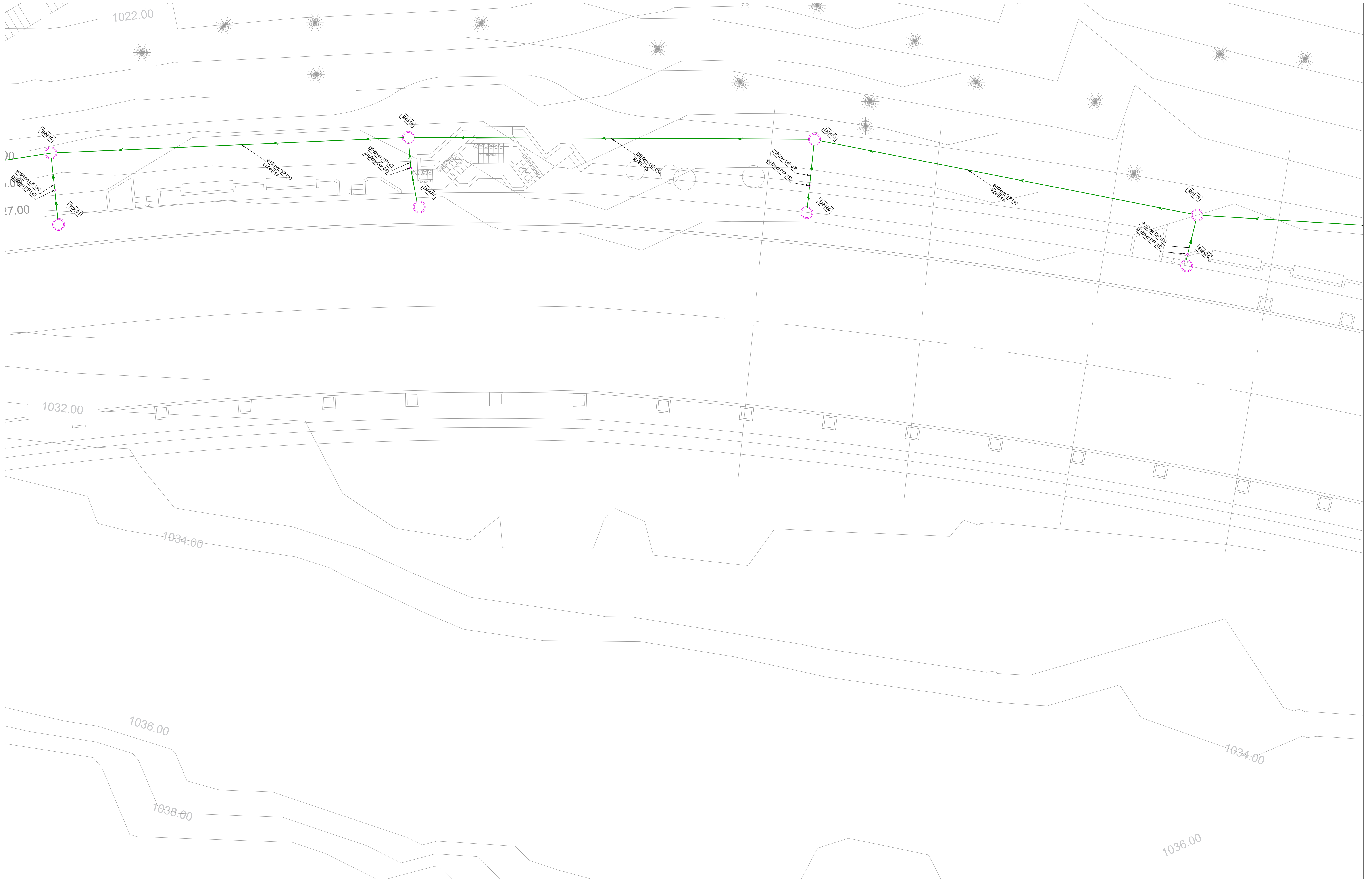
DRAWING TITLE
SITE PLAN MECHANICAL SERVICES LAYOUT (PART-04)

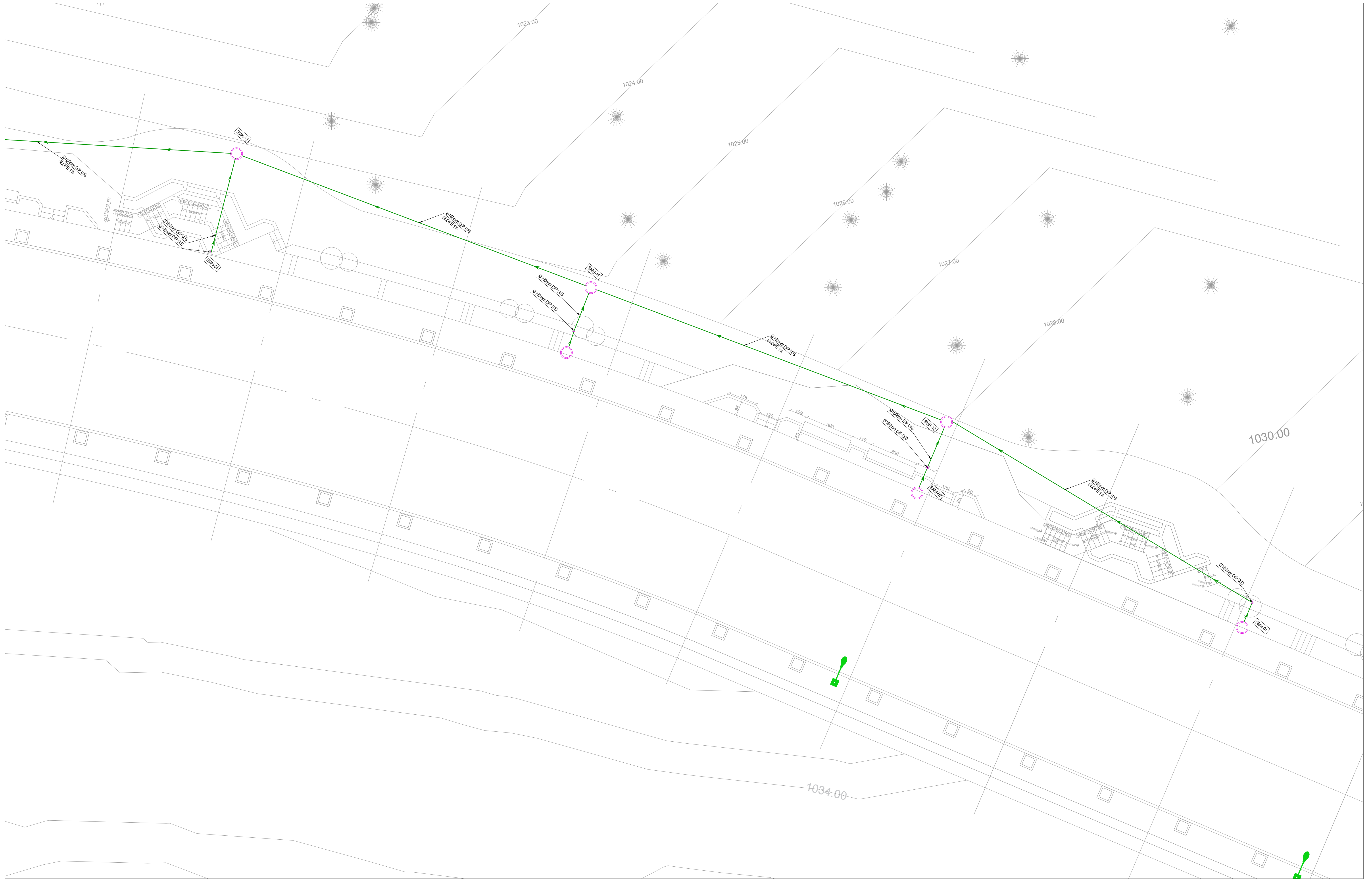
SHEET NUMBER
MOC07GNRL-SITE-04-R00

ISSUE DATE
JUL 2023





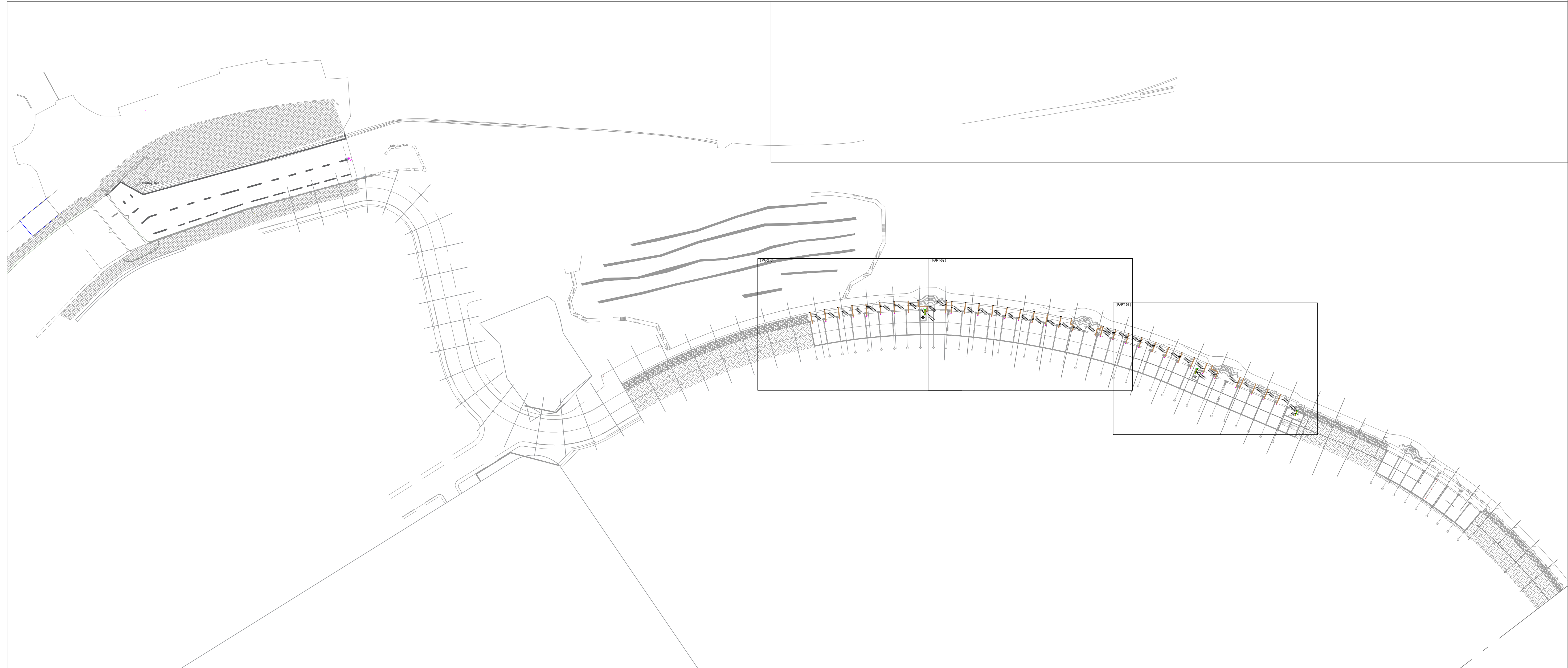


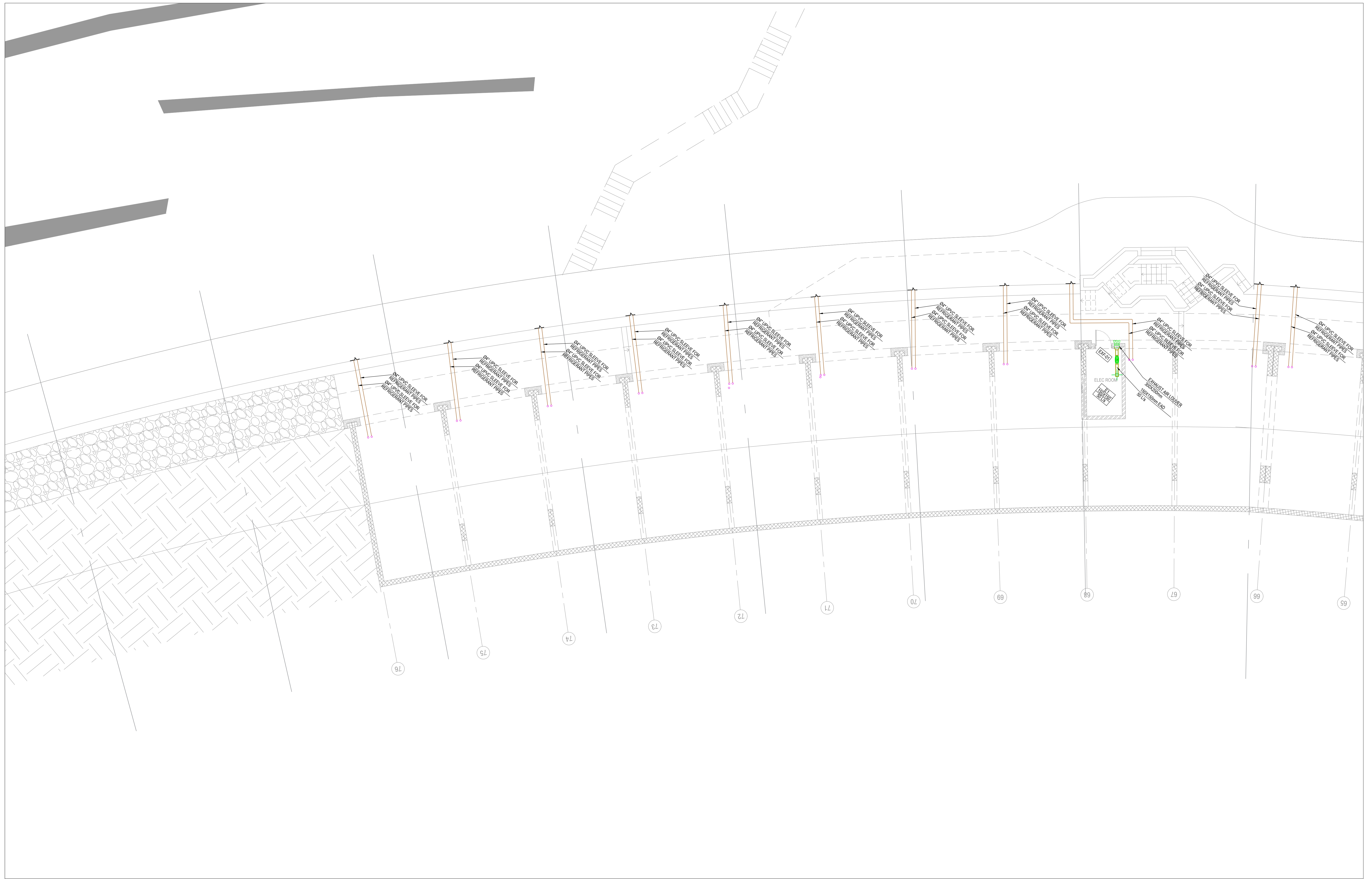


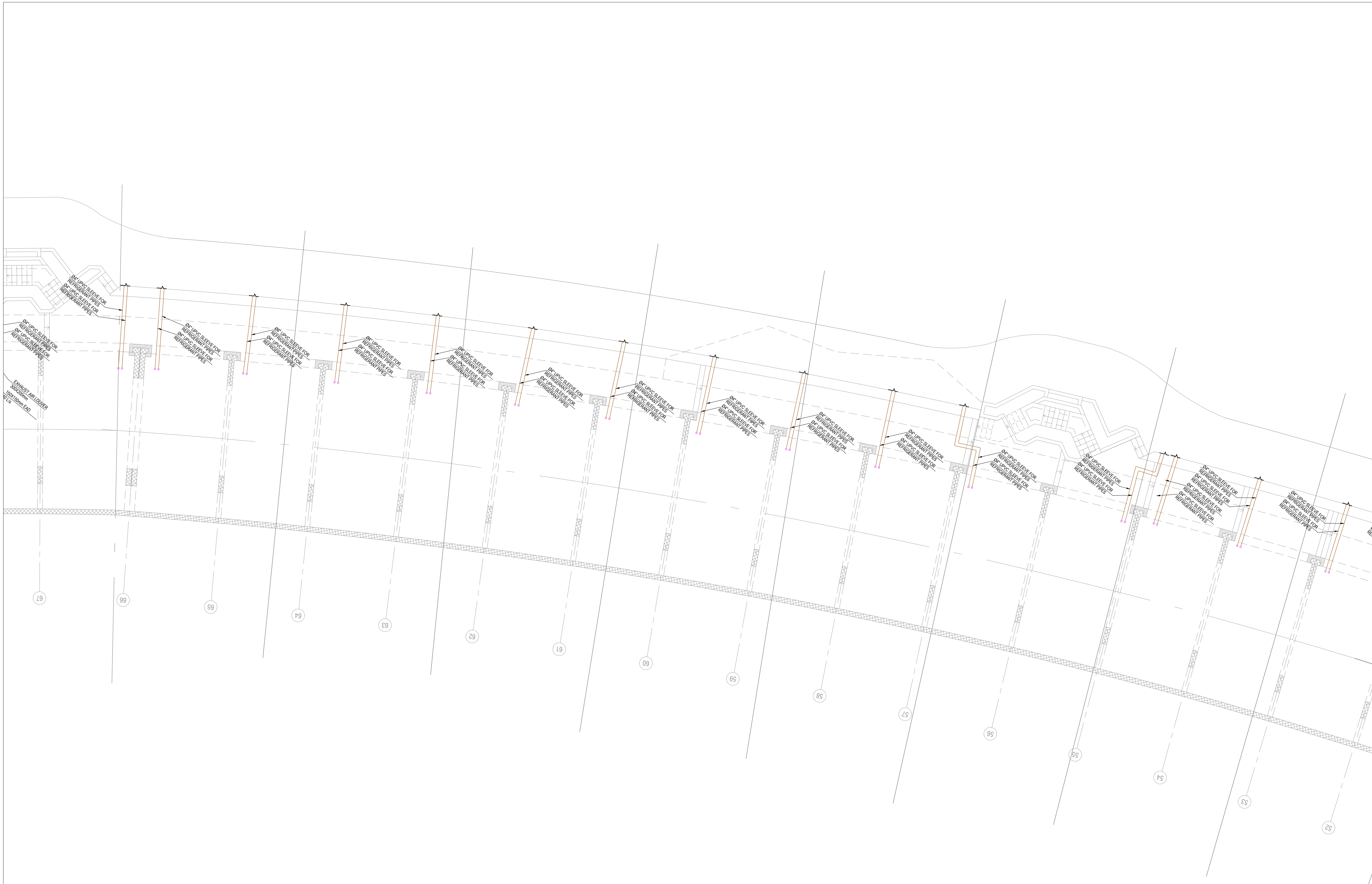
FANS SCHEDULE																			
REF.	SERVED AREA	LOCATION	AIR FLOW (L/s)	ESTIMATED EXTERNAL STATIC PRESSURE (Pa)	FAN SPEED(S)	ELECTRICAL CHARACTERISTICS						TYPE	TYPE OF DRIVE	SOUND PRESSURE (dBa @ 1.5 m)	FAN EFFICIENCY	FILTERS	INSTALLATION AND IP RATING	OPERATING AIR STREAM TEMPERATURE (°C)	ADDITIONAL REQUIREMENTS
						CONTROL METHOD	POWER (kW)	MOTOR PROTECTION TYPE	VOLT. (V)	PHASE (Ø)	FREQUENCY (Hz)								
EXF-01	GROUND FLOOR	TOILET	50	60	ONE SPEED	-TIMER SWITCH -PUSH BUTTON	0.10	-	230	1	50	IN LINE MIXED FLOW	DIRECT DRIVE	42	75%	CARBON FILTER	INDOOR (IP45)	50	FACTORY ASSEMBLED FAN SHOULD BE PROVIDED WITH THE FOLLOWINGS: 1- PROVIDE STAINLESS STEEL BIRDS & INSECT SCREEN 2- PROVIDE SPEED REGULATOR 3- PROVIDE BACK DRAFT DAMPER 4- SILENT FAN WITH WITH SOUND ABSORBENT INSULATION HOUSING

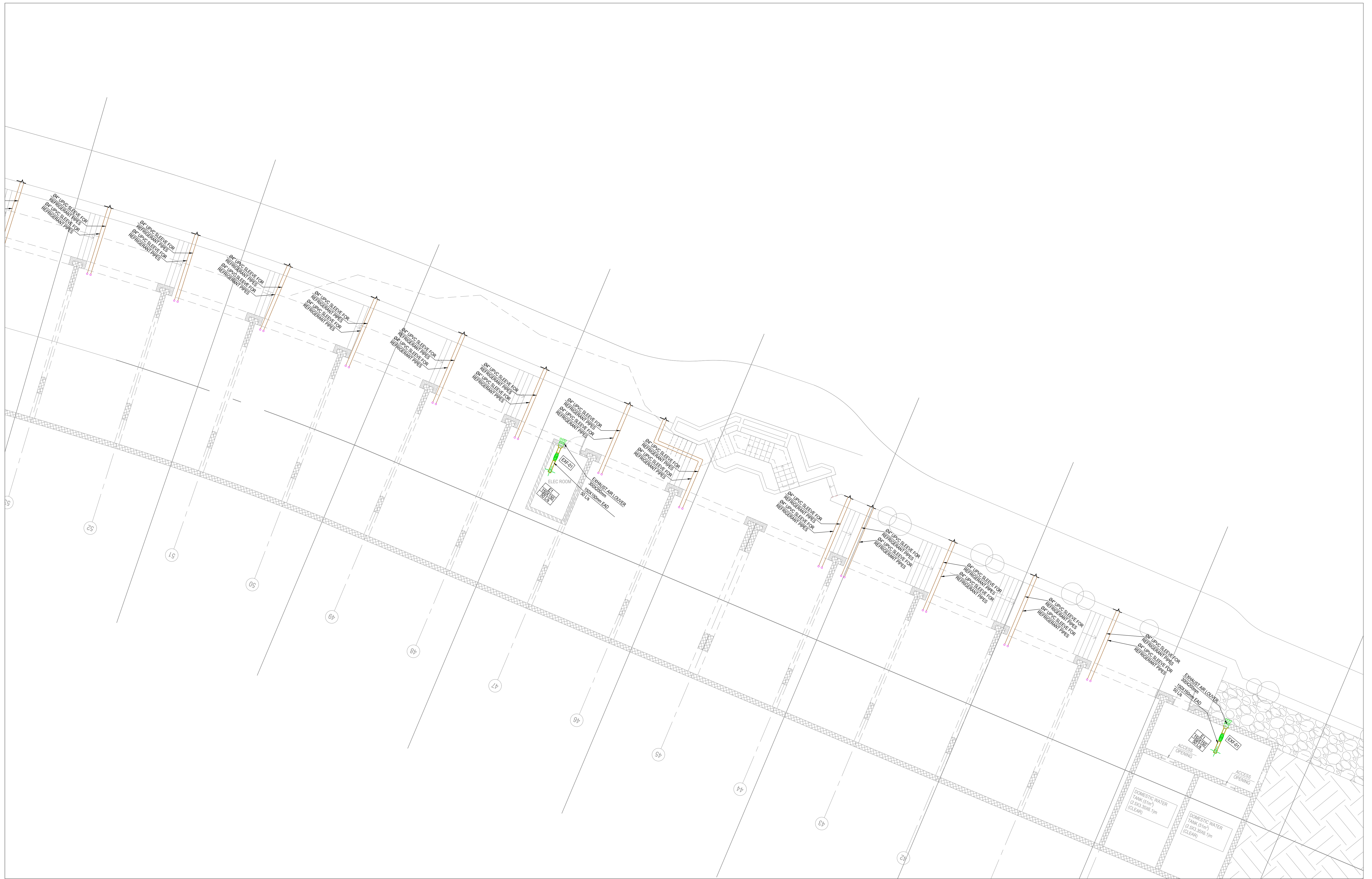
NOTES:-

- INTER LOCK ALL FRESH AIR FANS WITH EXHAUST AIR FANS AND SPEED SELECTOR
- THE POWER CONSUMPTION IN (kW) IS BASED ON PRELIMINARY EQUIPMENT SELECTION
- THE ACTUAL POWER CONSUMPTION AND NOMINAL RATING SHOULD BE VERIFIED BY THE CONTRACTOR BASED ON FINAL EQUIPMENT SELECTION
- CONTRACTOR SHALL VERIFY THE FINAL REQUIRED EXTERNAL STATIC PRESSURE BASED ON FINAL FAN SELECTION AND FINAL DUCT ROUT



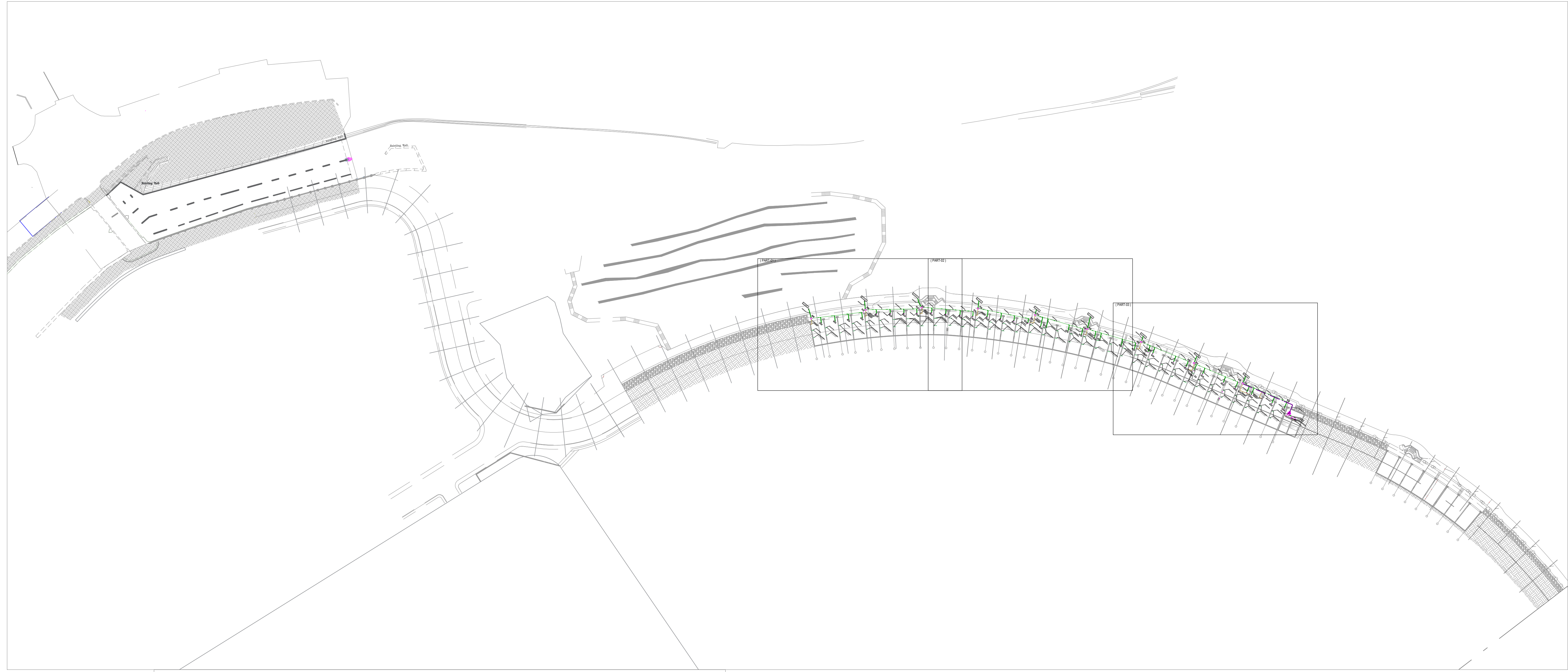






SUBMERSIBLE PUMP SCHEDULE																									
REF.	SERVED AREA, SYSTEM OR EQUIPMENT	LOCATION	FLOW (L/s)	HEAD (m)	ELECTRICAL DATA										QUANTITY			TYPE	PUMPS MATERIAL			INSTALLATION AND IP RATING	MAXIMUM AMBIENT TEMPERATURE (°C)	MAXIMUM LIQUID TEMPERATURE (°C)	REMARKS
					CONTROL METHOD	MOTOR SPEED (RPM)	MOTOR POWER (KW)	MOTOR PROTECTION TYPE	MOTOR EFFICIENCY	MOTOR INSULATION CLASS	PHASE (Ø)	FREQUENCY (Hz)	VOLT. (V)	DUTY	STAND BY	TOTAL	CASING		IMPELLER	SHAFT					
SMP-01	SEWAGE SYSTEM MECHANICAL ROOM	SITE (MECHANICAL ROOM)	1.00	7.0	CONTROL PANEL	2900	1.5	THERMAL SWITCH	IE3	F	1	50	230	1	1	2	CONSTANT SPEED PACKAGED SUBMERSIBLE PUMP SET	CAST IRON	STAINLESS STEEL	STAINLESS STEEL	SUBMERSIBLE (IP68)	40	40	FACTORY ASSEMBLED PUMP SHOULD BE PROVIDED WITH THE FOLLOWINGS FROM THE SAME MANUFACTURER: - OPEN TYPE MULTI VANE IMPELLER - AUTO COUPLING SYSTEM - STAINLESS STEEL SLIDING RAILS - STAINLESS STEEL CHAINS - 4 NO'S LEVEL SWITCHES- EXPLOSION PROOF MOTOR - CONTROL PANEL	

NOTES:
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 ** THE POWER CONSUMPTION IN (KW) SHOWN IN THE DESIGN SCHEDULES IS BASED ON PRELIMINARY EQUIPMENT SELECTION, ACTUAL POWER CONSUMPTION AND NOMINAL RATINGS SHOULD BE VERIFIED BY THE CONTRACTOR BASED ON FINAL EQUIPMENT SELECTION. ANY VARIANT IN POWER CONSUMPTION RATE SHALL BE CONSIDERED AT NO ADDITIONAL COST.



SEWAGE MANHOLES SCHEDULE													
1	2	3	4	5	6	7	8	9	10	COVER			
MN REF.	DRAIN TYPE	DRAIN OUTLET DIA. (mm)	COVER LEVEL (m)	INVERT LEVEL (m)	BASE LEVEL (m)	CHAMBER TYPE	MH CONST. TYPE	MANHOLE SIZE (mm)	APPROXIMATE DEPTH (m)	COVER SIZE (mm)	COVER TYPE	COVER SEAL	BEARING TYPE
SMH-01	1	150mm	1031.10	1030.5000	1030.35	1	1	Ø600	0.60	Ø600	1	2	3
SMH-02	1	150mm	1030.20	1029.6000	1029.45	1	1	Ø600	0.60	Ø600	1	2	3
SMH-03	1	150mm	1028.56	1027.9600	1027.81	1	1	Ø600	0.60	Ø600	1	2	3
SMH-04	1	150mm	1027.06	1026.4600	1026.31	1	1	Ø600	0.60	Ø600	1	2	3
SMH-05	1	150mm	1026.46	1025.8600	1025.71	1	1	Ø600	0.60	Ø600	1	2	3
SMH-06	1	150mm	1025.16	1024.5600	1024.41	1	1	Ø600	0.60	Ø600	1	2	3
SMH-07	1	150mm	1023.86	1023.2600	1023.11	1	1	Ø600	0.60	Ø600	1	2	3
SMH-08	1	150mm	1023.86	1023.2600	1023.11	1	1	Ø600	0.60	Ø600	1	2	3
SMH-09	1	150mm	1023.56	1024.9600	1024.81	1	1	Ø600	0.60	Ø600	1	2	3

DRAIN TYPE COL 2:
 1. FOUL WATER
 2. RAIN WATER

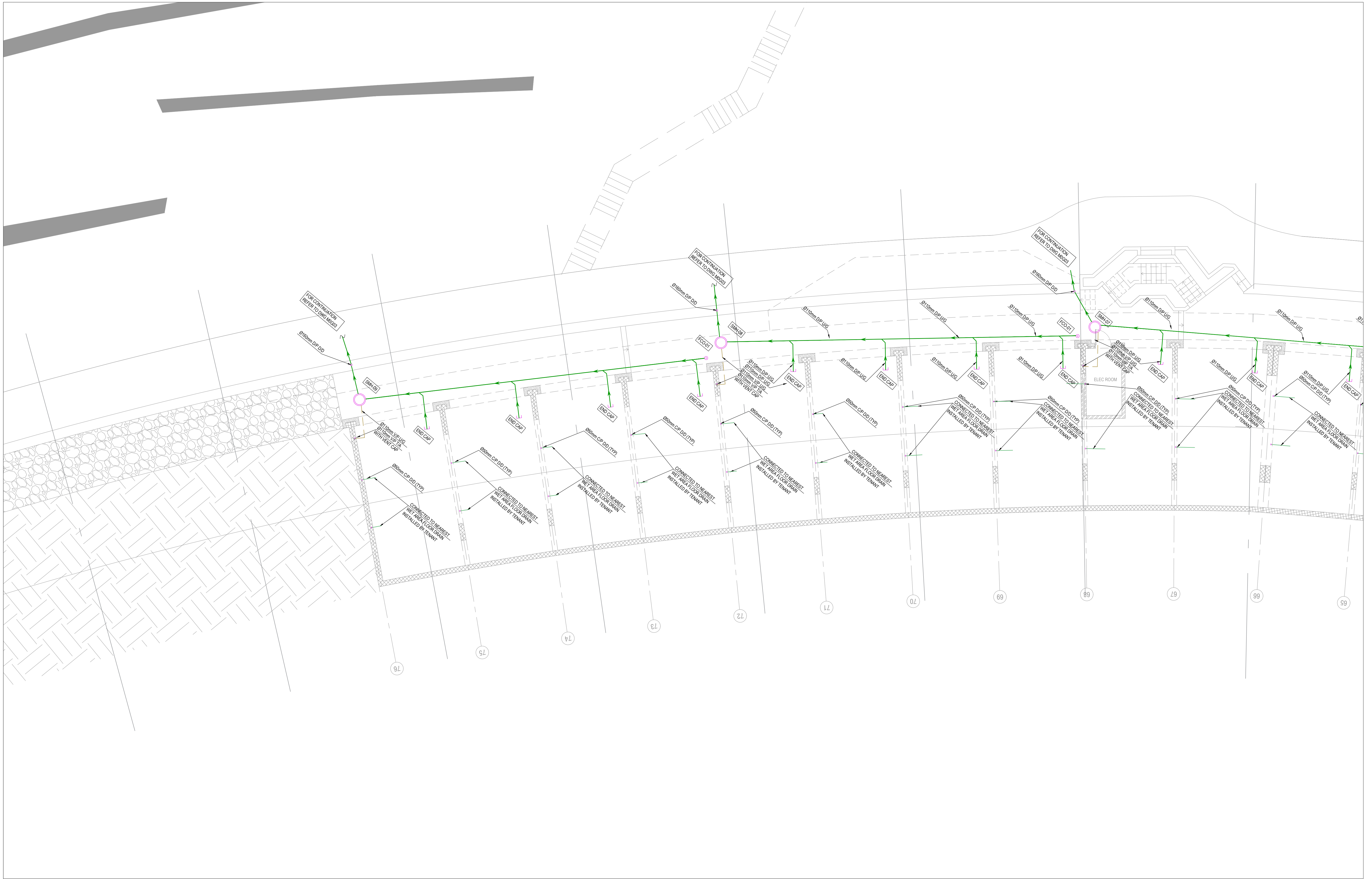
CHAMBER TYPE COL 7:
 1. CONCRETE CHANNEL
 2. UPVC CHANNEL

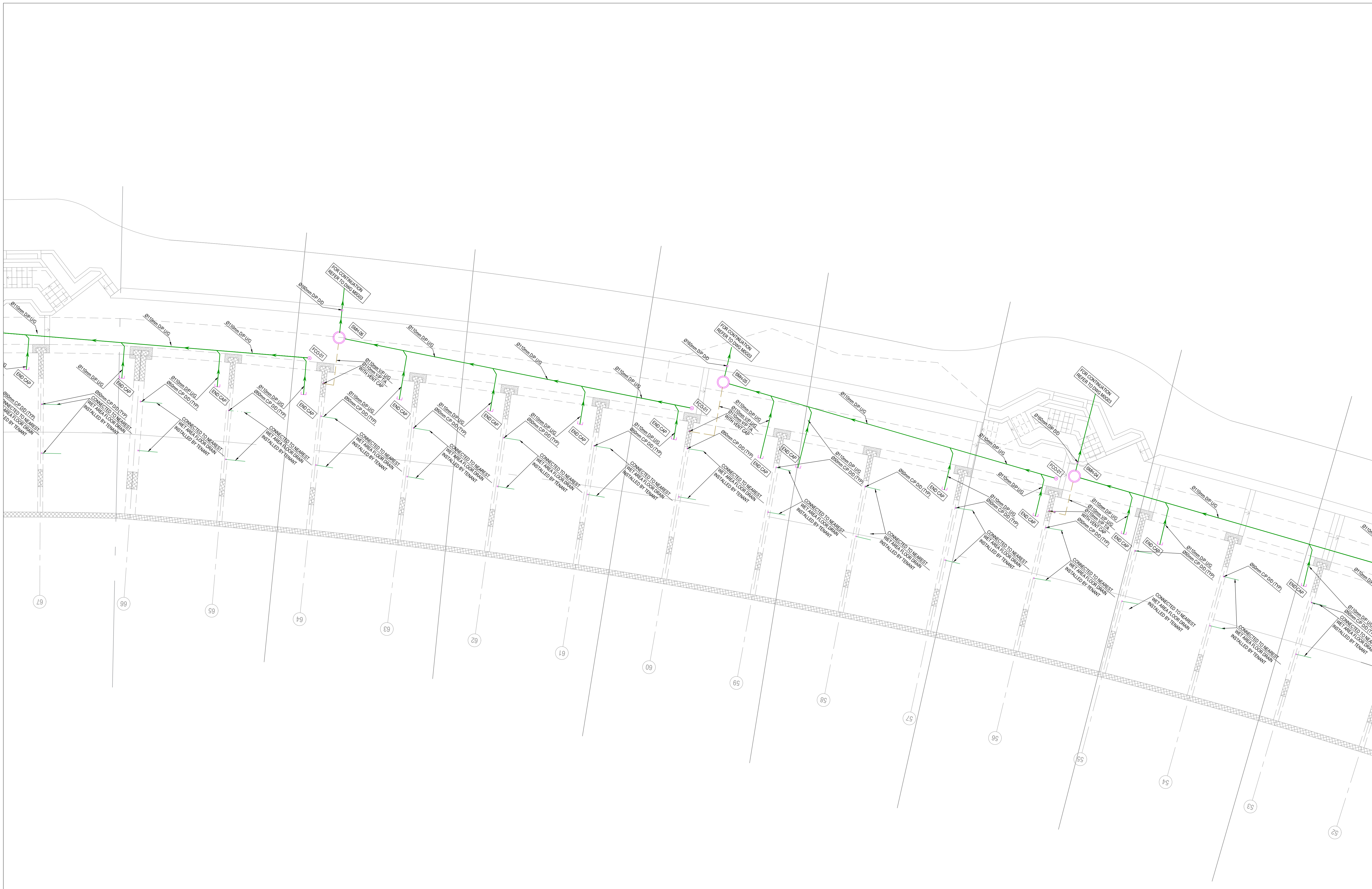
MH CONSTRUCTION TYPE COL 8:
 1. IN-SITU CONCRETE
 2. PRE-CAST CONCRETE RING

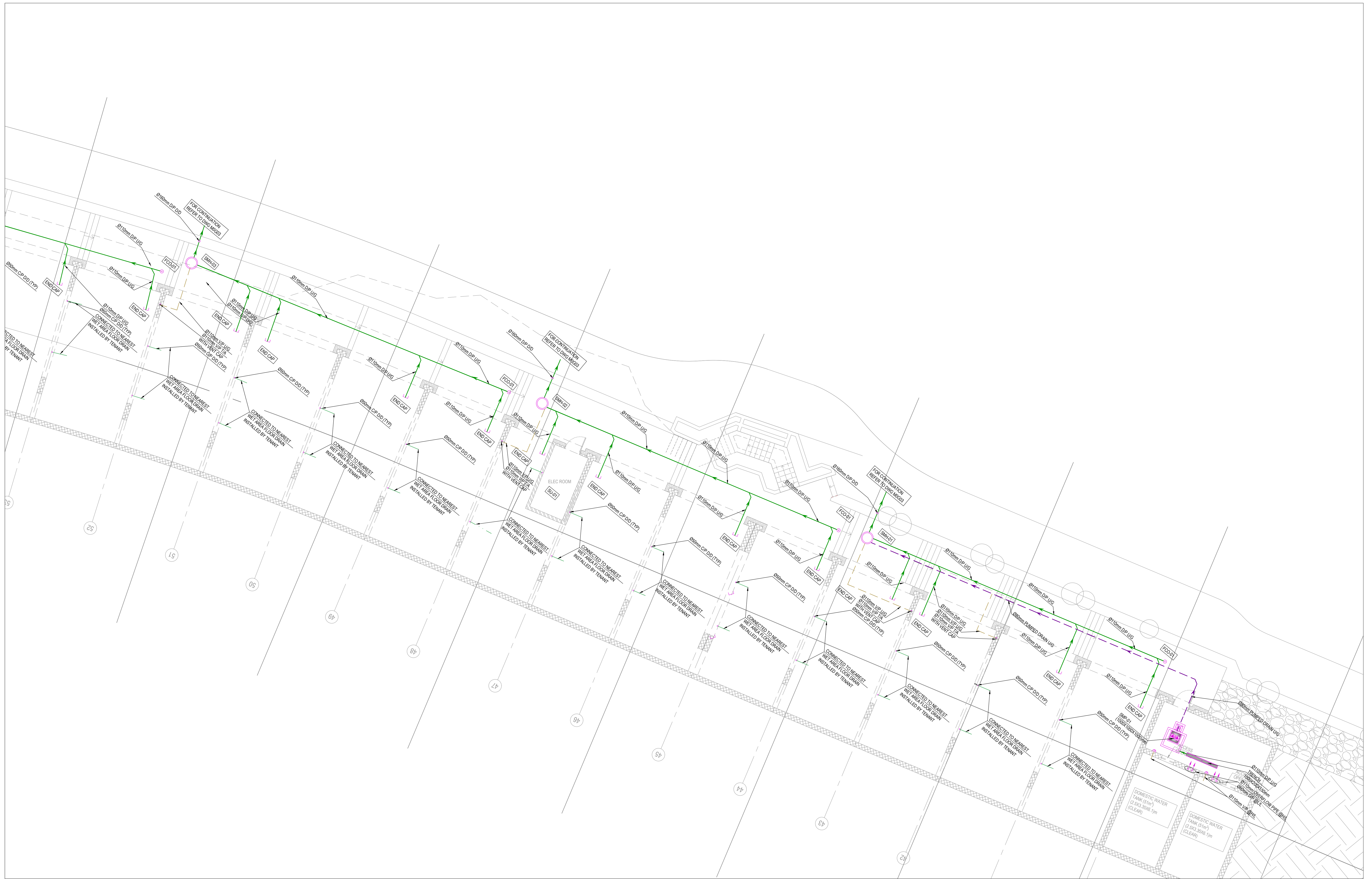
COVER TYPE COL 12:
 1. GALVANIZED STEEL RECESSED WITH FLOOR FINISH MATCHING SURROUNDING
 2. CAST IRON
 3. 6mm GALVANIZED STEEL CHECKERED PLATE

COVER SEAL COL 13:
 1. SINGLE SEAL
 2. DOUBLE SEAL

BEARING TYPE CO 14:
 1. LIGHT
 2. MEDIUM
 3. HEAVY



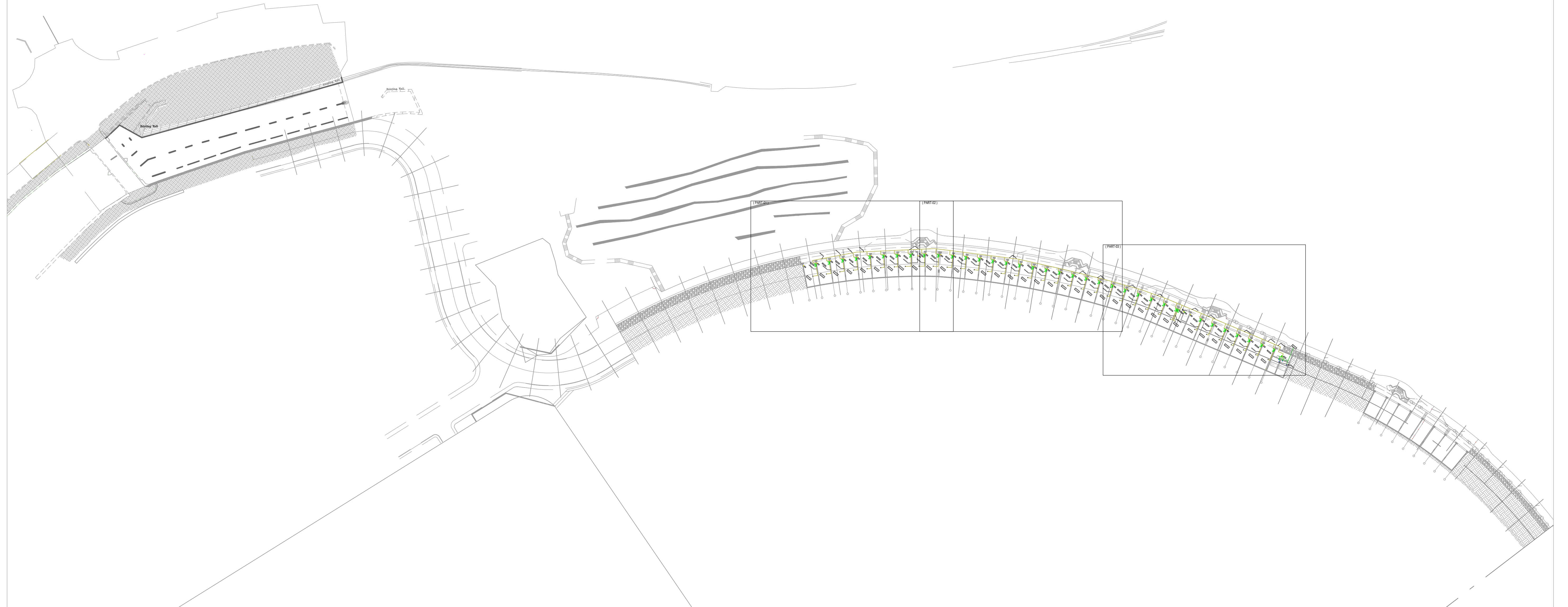


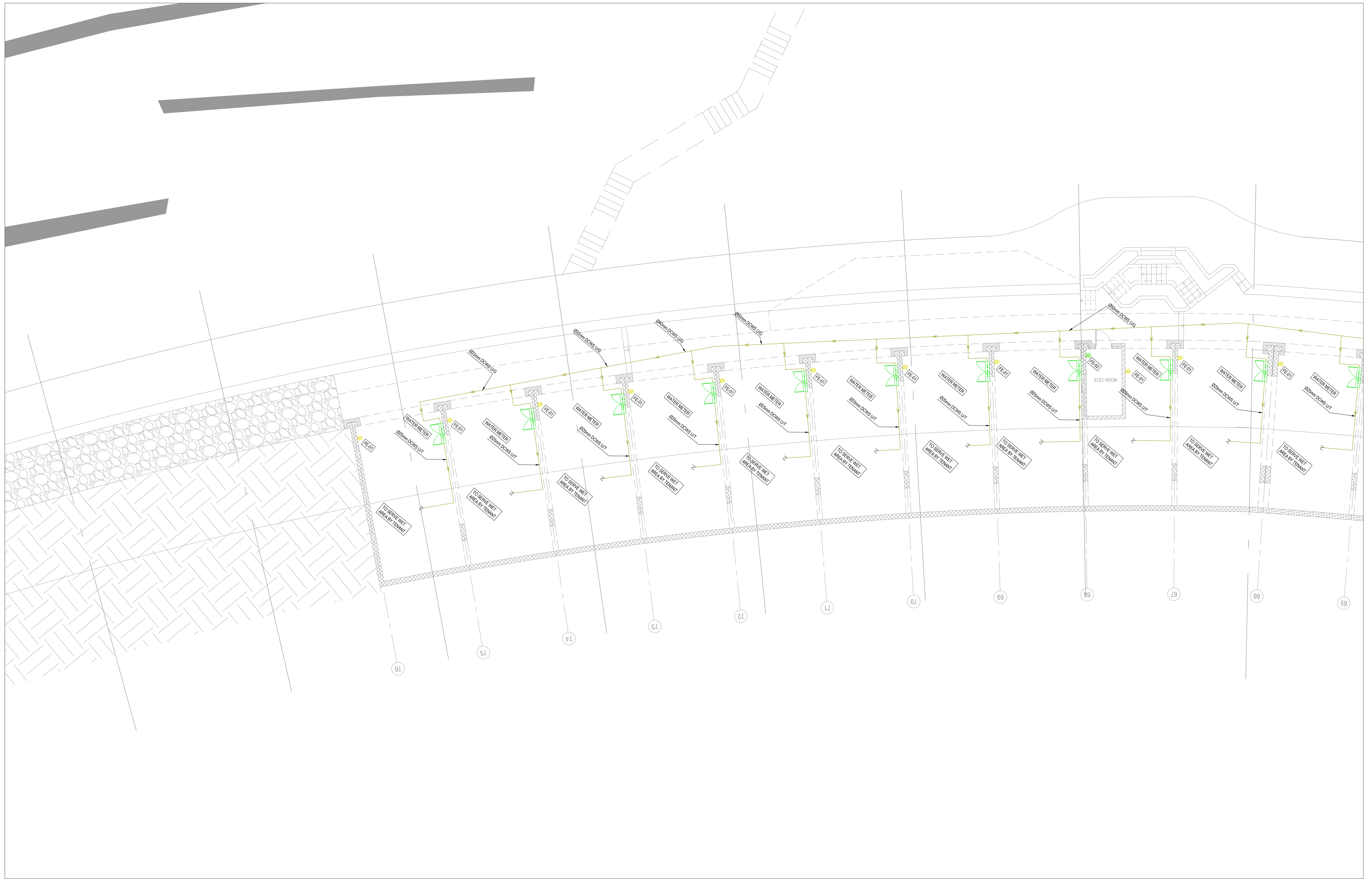


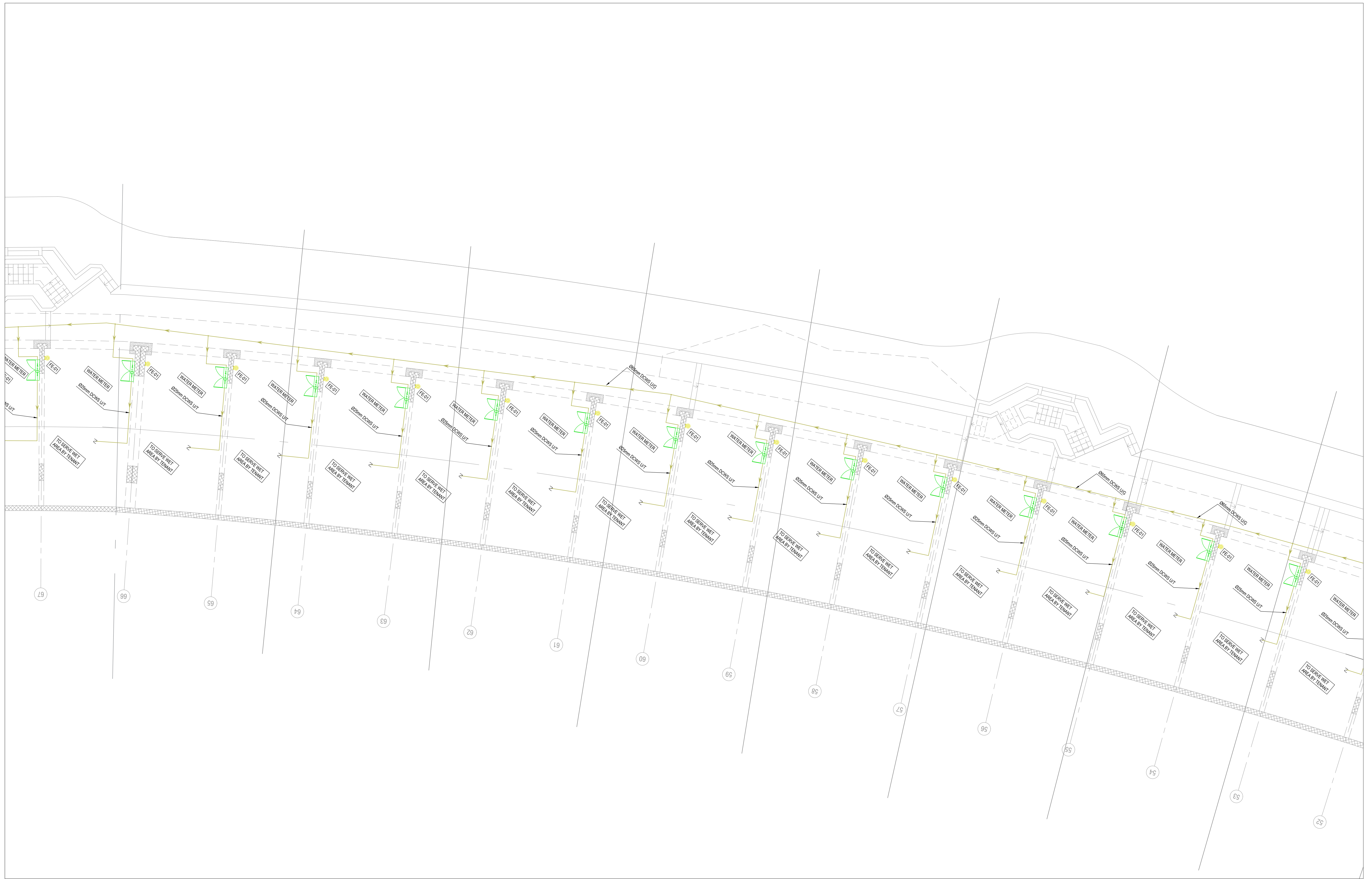
FIRE EXTINGUISHERS SCHEDULE		
REF.	TYPE	CAPACITY
FE-01	ABC DRY POWDER FIRE EXTINGUISHER	6 kg
FE-02	CARBON DIOXIDE FIRE EXTINGUISHER	5 kg

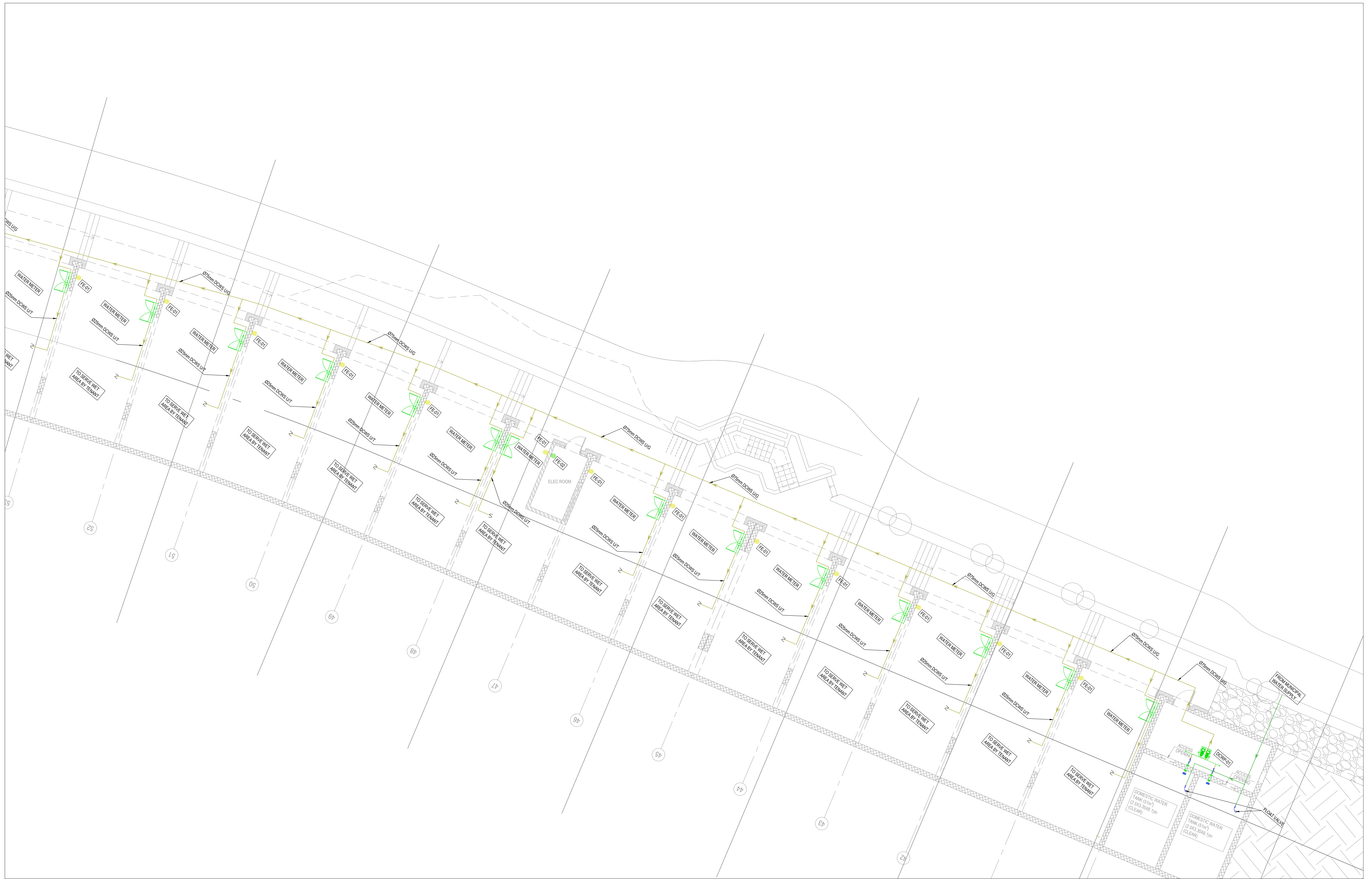
DOMESTIC WATER PUMP SCHEDULE																									
REF.	DESCRIPTION	LOCATION	FLOW (L/s)	HEAD (m)	ELECTRICAL DATA										QUANTITY			TYPE	PUMPS MATERIAL			INSTALLATION AND IP RATING	MAXIMUM AMBIENT TEMPERATURE (°C)	MAXIMUM LIQUID TEMPERATURE (°C)	REMARKS
					CONTROL METHOD	MOTOR SPEED (RPM)	MOTOR POWER (KW)	MOTOR PROTECTION TYPE	MOTOR EFFICIENCY	MOTOR INSULATION CLASS	PHASE (Ø)	FREQUENCY (Hz)	VOLT (V)	DUTY	STAND BY	TOTAL	CASING / HOUSING		IMPELLER	SHAFT					
DCWP-01	DOMESTIC COLD WATER BOOSTER PUMP	MECHANICAL ROOM	2.89	30.0	-	2900	1.7 + 1.7	-	IE3	F	1	50	400	2	-	2	VARIABLE SPEED PACKAGED MULTISTAGE CENTRIFUGAL BOOSTER PUMP	CAST IRON	STAINLESS STEEL	STAINLESS STEEL	INDOOR (IP44)	40	40	-WITH PRESSURE VESSEL CAPACITY IN ACCORDANCE WITH MANUFACTURER RECOMMENDATION -WITH BUILT-IN VARIABLE FREQUENCY DRIVE (VFD) -WITH DRY RUN PROTECTION -SELF PRIMING WITH FOOT CHECK VALVE	

NOTES:
 * PUMP HEAD IS AN ESTIMATED VALUE, THE CONTRACTOR SHALL UNDERTAKE SYSTEM ACTUAL PRESSURE DROP, REVALIDATE HEAD OF PUMP AND SIZE PUMP MOTOR ACCURATELY ACCORDING TO APPROVED SHOP DRAWINGS.
 ** THE POWER CONSUMPTION IN (KW) SHOWN IN THE DESIGN SCHEDULES IS BASED ON PRELIMINARY EQUIPMENT SELECTION, ACTUAL POWER CONSUMPTION AND NOMINAL RATING SHOULD BE VERIFIED BY THE CONTRACTOR BASED ON FINAL EQUIPMENT SELECTION. ANY VARIANT IN POWER CONSUMPTION RATE SHALL BE CONSIDERED AT NO ADDITIONAL COST.







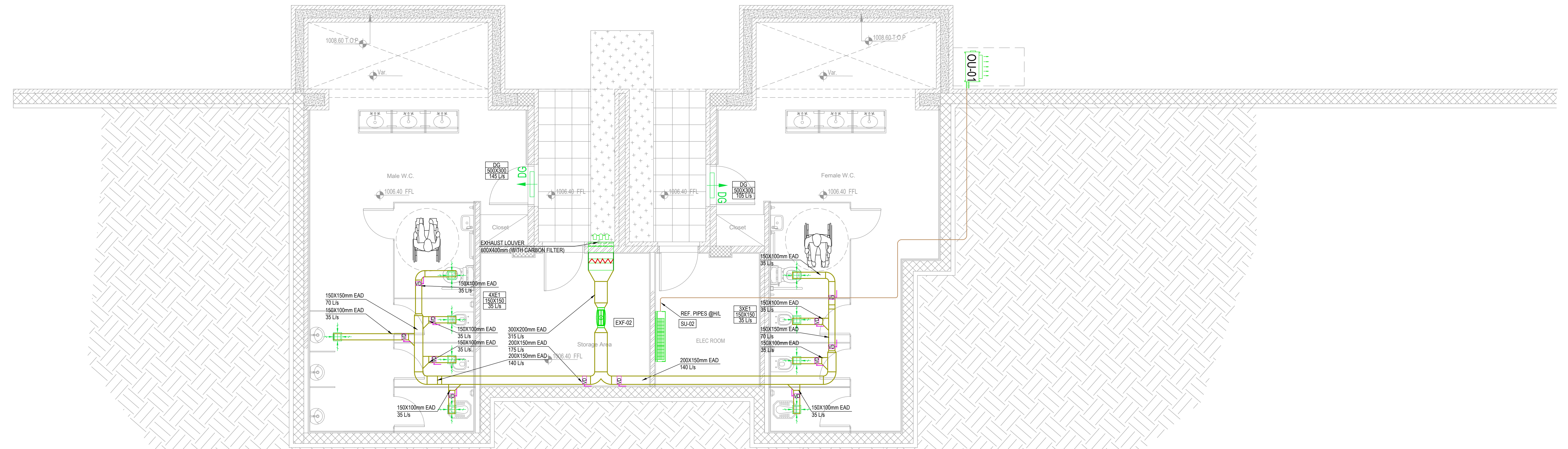


FANS SCHEDULE																			
REF.	SERVED AREA	LOCATION	AIR FLOW (L/s)	ESTIMATED EXTERNAL STATIC PRESSURE (Pa)	FAN SPEED(S)	ELECTRICAL CHARACTERISTICS					TYPE	TYPE OF DRIVE	SOUND PRESSURE (dBa @ 1.5 m)	FAN EFFICIENCY	FILTERS	INSTALLATION AND IP RATING	OPERATING AIR STREAM TEMPERATURE (°C)	ADDITIONAL REQUIREMENTS	
						CONTROL METHOD	POWER (kW)	MOTOR PROTECTION TYPE	VOLT. (V)	PHASE (Ø)									FREQUENCY. (Hz)
EXF-02	GROUND FLOOR	TOILET	345	150	ONE SPEED	TIMER SWITCH PUSH BUTTON	0.30	-	230	1	50	IN LINE MIXED FLOW	DIRECT DRIVE	42	75%	CARBON FILTER	INDOOR (IP45)	50	FACTORY ASSEMBLED FAN SHOULD BE PROVIDED WITH THE FOLLOWINGS: 1- PROVIDE STAINLESS STEEL BIRDS & INSECT SCREEN 2- PROVIDE SPEED REGULATOR 3- PROVIDE BACK DRAFT DAMPER 4- SILENT FAN WITH WITH SOUND ABSORBENT INSULATION HOUSING

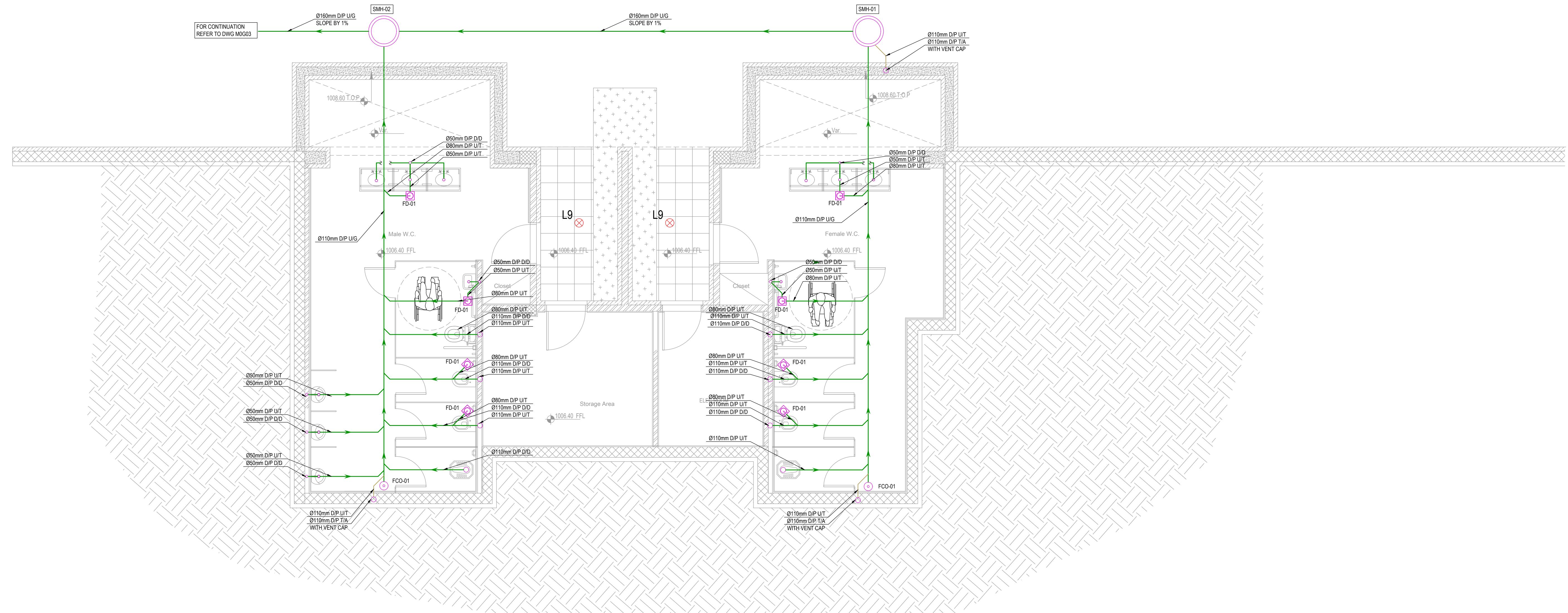
NOTES:
1- INTER LOCK ALL FRESH AIR FANS WITH EXHAUST AIR FANS AND SPEED SELECTOR
2- THE POWER CONSUMPTION IN (kW) IS BASED ON PRELIMINARY EQUIPMENT SELECTION
3- THE ACTUAL POWER CONSUMPTION AND NOMINAL RATING SHOULD BE VERIFIED BY THE CONTRACTOR BASED ON FINAL EQUIPMENT SELECTION
4- CONTRACTOR SHALL VERIFY THE FINAL REQUIRED EXTERNAL STATIC PRESSURE BASED ON FINAL FAN SELECTION AND FINAL DUCT ROUT

SPLIT UNIT COOLING ONLY SCHEDULE (INVERTER TYPE)													
REF.	TYPE	INDOOR UNIT AIR FLOW (L/s)	ESTIMATED REQUIRED EXTERNAL STATIC PRESSURE (Pa)	REQUIRED INDOOR AIR TEMPERATURE (DBWB)	MINIMUM REQUIRED COOLING CAPACITY AT AMBIENT TEMP.* (kW)		VOLT. (V)	PHASE (Ø)	FREQUENCY. (Hz)	ELECTRIC INPUT POWER (kW)	INDOOR UNIT MAXIMUM SOUND PRESSURE LEVEL AT HIGH SPEED (dBa @ 1.5 m)	OUTDOOR UNIT MAXIMUM SOUND PRESSURE LEVEL	ADDITIONAL REQUIREMENTS
					TOTAL	SENSIBLE							
SU-02	WALL MOUNTED	-	-	23.0/16.0	3.20	2.70	230	1	50	2.60	37	50	-

* SELECTION SHALL BE BASED ON:
1- AMBIENT TEMPERATURE = 37°C DB
2- SYSTEM SHALL WITHSTAND OPERATING TEMPERATURE UP TO 43°C DB
3- REFRIGERANT TYPE = R134A OR R407C OR R410A
4- ALL WALL MOUNTED UNITS TO BE CONTROLLED BY REMOTE CONTROLLER WITH BACKLIGHT FEATURE
5- SELECTED INDOOR AND OUTDOOR UNIT'S SENSIBLE AND TOTAL COOLING CAPACITIES SHALL ACHIEVE THE REQUIRED SENSIBLE AND TOTAL COOLING CAPACITIES BASED ON ACTUAL COPPER PIPE RUN BETWEEN INDOOR & OUTDOOR UNITS ACCORDING TO MANUFACTURER CORRECTION FACTOR
6- THE POWER CONSUMPTION IN (kW) SHOWN IN THE DESIGN SCHEDULES IS BASED ON PRELIMINARY EQUIPMENT SELECTION, ACTUAL POWER CONSUMPTION AND NOMINAL RATING SHOULD BE VERIFIED BY THE CONTRACTOR BASED ON FINAL EQUIPMENT SELECTION. ANY VARIANT IN POWER CONSUMPTION RATE SHALL BE CONSIDERED AT NO ADDITIONAL COST.



SEWAGE MANHOLES SCHEDULE													
1	2	3	4	5	6	7	8	9	10	11	12	13	14
MN REF.	DRAIN TYPE	DRAIN OUTLET DIA. (mm)	COVER LEVEL (m)	INVERT LEVEL (m)	BASE LEVEL (m)	CHAMBER TYPE	MH CONST. TYPE	MANHOLE SIZE (mm)	APPROXIMATE DEPTH (m)	COVER SIZE (mm)	COVER		
										COVER TYPE	COVER SEAL	BEARING TYPE	
SMH-01	1	160mm	1008.6000	1008.0000	1007.85	1	1	Ø600	0.60	Ø600	1	2	3
SMH-02	1	160mm	1008.6000	1007.8500	1007.70	1	1	Ø600	0.75	Ø600	1	2	3
DRAIN TYPE COL 2: 1.FOUL WATER 2.RAIN WATER		CHAMBER TYPE COL 7: 1.CONCRETE CHANNEL 2.UPVC CHANNEL		MH CONSTRUCTION TYPE COL 8: 1.INSITU CONCRETE 2.PRE-CAST CONCRETE RING			COVER TYPE COL 12: 1. GALVANIZED STEEL RECESSED WITH FLOOR FINISH MATCHING SURROUNDING 2. CAST IRON 3. 6mm GALVANIZED STEEL,CHECKERED PLATE			COVER SEAL COL 13: 1.SINGLE SEAL 2.DOUBLE SEAL		BEARING TYPE CO 14 1. LIGHT 2. MEDIUM 3. HEAVY	



DOMESTIC WATER PUMP SCHEDULE

REF.	DESCRIPTION	LOCATION	FLOW (L/s)	HEAD (m)	ELECTRICAL DATA								QUANTITY			TYPE	PUMP'S MATERIAL			INSTALLATION AND IP RATING	MAXIMUM AMBIENT TEMPERATURE (°C)	MAXIMUM LIQUID TEMPERATURE (°C)	REMARKS	
					CONTROL METHOD	MOTOR SPEED (RPM)	MOTOR POWER (kW)	MOTOR PROTECTION TYPE	MOTOR EFFICIENCY	MOTOR INSULATION CLASS	PHASE (Ø)	FREQUENCY (Hz)	VOLT (V)	DUTY	STAND BY		TOTAL	CASING / HOUSING	IMPELLER					SHAFT
DCWP-01	DOMESTIC COLD WATER BOOSTER PUMP	MECHANICAL ROOM	2.20	30.0	-	2900	1.5 + 1.5	-	IE3	F	1	50	400	2	-	2	VARIABLE SPEED PACKAGED MULTISTAGE CENTRIFUGAL BOOSTER PUMP	CAST IRON	STAINLESS STEEL	STAINLESS STEEL	INDOOR (IP44)	40	40	-WITH PRESSURE VESSEL CAPACITY IN ACCORDANCE WITH MANUFACTURER RECOMMENDATION -WITH BUILT-IN VARIABLE FREQUENCY DRIVE (VFD) -WITH DRY RUN PROTECTION -SELF PRIMING WITH FOOT CHECK VALVE

NOTES:
 * PUMP HEAD IS AN ESTIMATED VALUE, THE CONTRACTOR SHALL UNDERTAKE SYSTEM ACTUAL PRESSURE DROP, REVALIDATE HEAD OF PUMP AND SIZE PUMP MOTOR ACCURATELY ACCORDING TO APPROVED SHOP DRAWINGS.
 ** THE POWER CONSUMPTION IN (kW) SHOWN IN THE DESIGN SCHEDULES IS BASED ON PRELIMINARY EQUIPMENT SELECTION, ACTUAL POWER CONSUMPTION AND NOMINAL RATING SHOULD BE VERIFIED BY THE CONTRACTOR BASED ON FINAL EQUIPMENT SELECTION. ANY VARIANT IN POWER CONSUMPTION RATE SHALL BE CONSIDERED AT NO ADDITIONAL COST.

FIRE EXTINGUISHERS SCHEDULE

REF.	TYPE	CAPACITY
FE-01	ABC DRY POWDER FIRE EXTINGUISHER	6 kg
FE-02	CARBON DIOXIDE FIRE EXTINGUISHER	5 kg

WATER MANIFOLD CABINETS SCHEDULE

REF.	NO. OF MANIFOLDS WITHIN CABINET	1ST ROW						2ND ROW			CABINET LENGTH (mm)
		MANIFOLD NO.1			MANIFOLD NO.2			MANIFOLD NO.1			
		COLD			HOT			HOT			
		NUMBER OF OUTLETS	SIZE (INCH)	PIPE SIZE (mm)	NUMBER OF OUTLETS	SIZE (INCH)	PIPE SIZE (mm)	NUMBER OF OUTLETS	SIZE (INCH)	PIPE SIZE (mm)	
WMC-B4-01	3	13	1 1/4"	32mm	-	-	-	4	3/4"	20mm	1200
WMC-B4-02	3	6	1"	25mm	10	1 1/4"	25mm	4	3/4"	20mm	1200

NOTES:-
 1- PROVIDE ISOLATION BRANCH VALVE ON ALL BRANCHES
 2- PROVIDE COPPER (BRASS), CHROME OR STAINLESS STEEL MANIFOLDS ONLY

WATER TANK SCHEDULE

REF.	WT-01
LOCATION	ROOF
SERVICE	DOMESTIC COLD WATER
CONSTRUCTION	POLYETHYLENE, HORIZONTAL WITH 4 PROTECTIVE LAYERS AND UV PROTECTIVE LAYER
CAPACITY (L)	2,000
DIMENSIONS (L*W*H)	(Ø1.25X1.87m)

