

EXISTING MARKET STREET PHOTO REFERENCE IMAGE. **NOT TO SCALE**



TMS architects interiors

603.436.4274

STRUCTURAL ENGINEER

CIVIL ENGINEER

LANDSCAPE ARCHITECT

MECHANICAL ENGINEER

Revision & Reissue Notes

Date Description

HDC Submission

ROJECT NUMBER

87 Market
Street
Portsmouth,

NH

24-050

Market Street Elevation

DR- DES | SHEET SCALE | SHEET DATE | O2/12/2025

PLOT DATE: 2/14/2025 9:38:12 AM



EXISTING BOW STREET PHOTO REFERENCE IMAGE. **NOT TO SCALE**



TMS architects interiors

6 0 3 . 4 3 6 . 4 2 7 4

STRUCTURAL ENGINEER

CIVIL ENCINEED

LANDSCAPE ARCHITECT

Revision & Reissue Notes

Rev # Date Description

24-050

HDC Submission

ROJECT NUMBER

87 Market
Street
Portsmouth,
NH

Bow Street Elevation

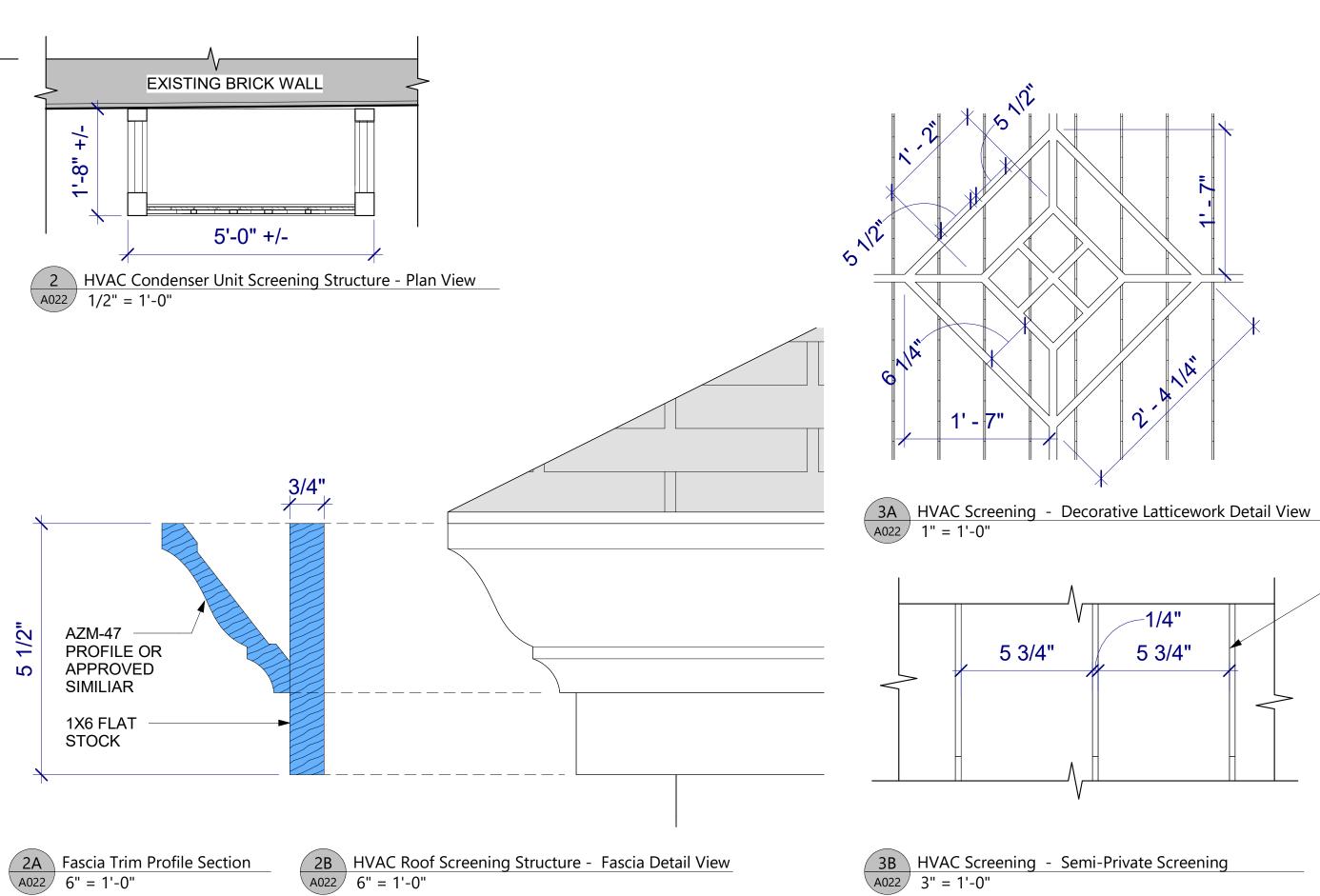
A021

DR- DES | SHEET SCALE | SHEET DATE | | O2/12/2025 |

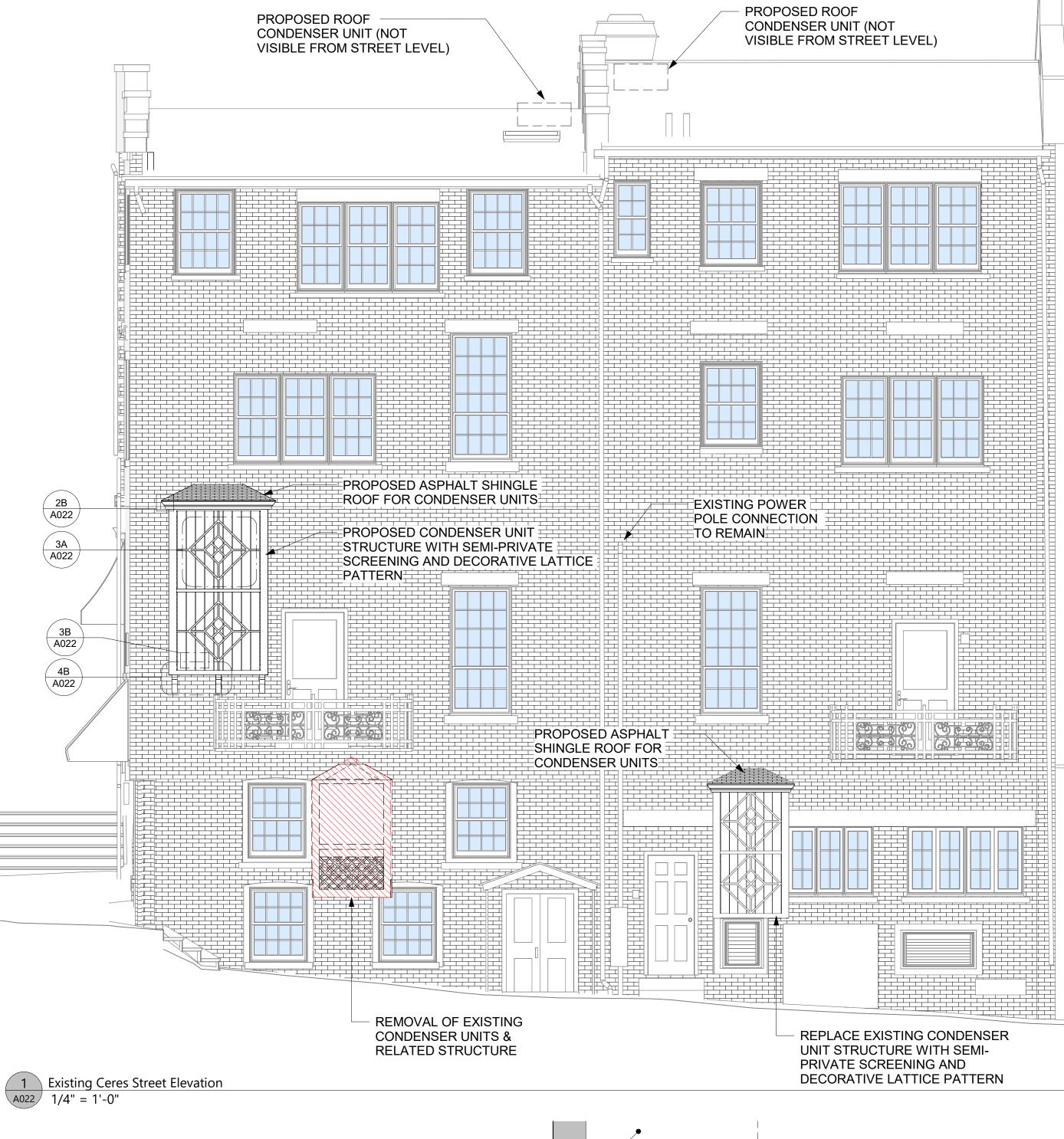


EXISTING CERES STREET PHOTO REFERENCE IMAGE. NOT TO SCALE

A022 6" = 1'-0"



A022 3" = 1'-0"





CUSTOMIZATION

WALPOLE OUTDOORS SOLID CELLULAR

VINYL SEMI PRIVATE

CUSTOM DECORATIVE

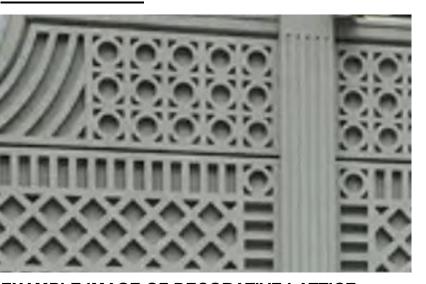
VINYL LATTICE WORK.

WHITE WINDOW TRIM

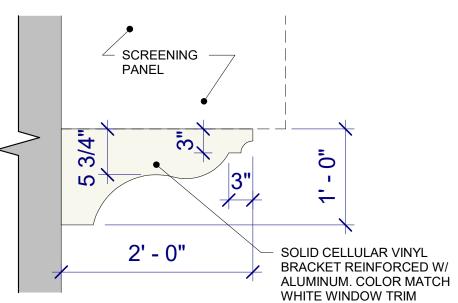
SCREENING W/

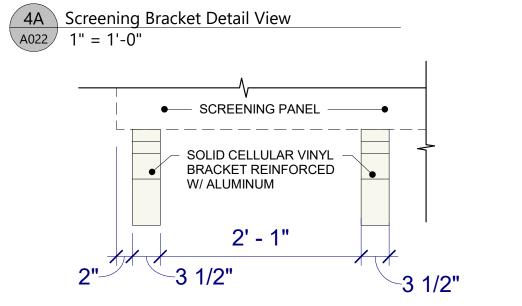
SOLID CELLULAR

COLOR TO MATCH



EXAMPLE IMAGE OF DECORATIVE LATTICE CUSTOMIZATION





4B Screening Bracket Detail View 2

A022 1" = 1'-0"



CONDENSER UNIT ROOF

CERTAINTEED LANDMARK 30 YEAR ARCHITECTURAL SHINGLES

COLOR: GEORGETOWN GRAY OR OWNER APPROVED SIMILAR

A022

DR- DES SHEET SCALE SHEET DATE
CH- TMG As indicated 02/12/2025

TMS architects interiors

603.436.4274

STRUCTURAL ENGINEER

LANDSCAPE ARCHITECT

MECHANICAL ENGINEER

Date

Revision & Reissue Notes

HDC Submission

24-050

87 Market

Street

Portsmouth,

NH

Ceres Street

Elevation

PROJECT NUMBER

Description

PLOT DATE: 2/14/2025 9:38:10 AM



TMS architects interiors

603.436.4274

GENERAL CONTRACTOR

STRUCTURAL ENGINEER

CIVILL ENICIPIEED

LANDSCAPE ARCHITECT

MECHANICAL ENGINEER

Revision & Reissue Notes

Date Description

STAMPS

HDC Submission

DJECT NUMBER 24-050

87 Market
Street
Portsmouth,
NH

Massing Views

A023

DR- DES SHEET SCALE SHEET DATE
CH- TMG 02/12/2025

PLOT DATE: 2/14/2025 9:38:16 AM

MSUNG

SUBMITTAL

AC018BNZDCH/AA (CNH18ZDB) / AC018BXADCH/AA (CXH18ADB) Page 1 of

Samsung Multi-Position Air Handler, Single Zone Duct, Split System

Job Name	e Performano	e	
Purchase			
Submitted			
Unit Design			
Ouir Desig	gnation		
		Specifications	
14-4-1	Indoor Unit Model No	umber (US Code)	AC018BNZDCH/AA (CNH18ZDB)
Model	Outdoor Unit Model Number (US Code)		AC018BXADCH/AA (CXH18ADB)
	Nominal Capacity	Cooling / Heating (Btu/h)	18,000 / 20,000
		Cooling (Btu/h)	5,000 - 22,000
	Capacity Range	Heating (Btu/h)	5,000 - 29,000
Performance	AHRI 210-240 2023	SEER2	16.2
		EER2	10.4
		HSPF2	8.1
	Voltago	a (V) Uz	1 / 208-230 / 60
	Voltage Working Voltage Rar	ø/V/Hz	187 - 253
		Cooling (A)	3.0 / 7.9 / 11.5
Power	Operating Current (min. / std. / max.)	Heating (A)	2.6 / 8.6 / 20.0
	Max. Breaker	Amps	25
	Min. Circuit Ampacity	_ ·	20.1
	with Circuit Ampacity		
	WXHXD (in.)	Indoor Unit	17 1/2 X 43 X 21
	,	Outdoor Unit	34 5/8 X 31 7/16 X 12 1/4
Dimensions	Weight (lbs.)	Indoor Unit	98.1
		Outdoor Unit	118.4
	Duct Connections	Supply (in.)	12 1/4 X 15 1/2
V	(W X H)	Return (in.)	17 1/2 X 21
Sound Pressure	Indoor Unit dB(A)	L/M/H	34 / 37 / 40
Level	Outdoor Unit dB(A)	Cooling / Heating (high)	48 / 48
	Outdoor	Cooling	23 ~ 122°F (-5 ~ 50°C)
			0 ~ 122°F (-18 ~ 50°C) W/Baffle
Operating		Heating	-13 ~ 75°F (-25 ~ 24°C)
Temperatures		Cooling	64 ~ 90°F (16 ~ 32°C)
	Indoor	Heating	T ≤ 86°F (30°C)
		High side	1/4"
	Indoor & Outdoor	High side	1/2"
Pipe	Low side Maximum (ft.)		164
Connections		naration (ft)	98.4
	Maximum Vertical Separation (ft.) Condensate Connection		3/4 in, FNPT
	Туре		R410A
Refrigerant	Factory Charge lbs.		4.41
	Charged for		24.6 ft.
	Manufacturer		Samsung
Compressor	Туре		Inverter Driven, Twin BLDC Rotary
	RLA	Amps	12.7
Evaporator Fan	Туре		Double-inlet, forward curve, centrifugal (with ECM motor)
	Air Volume	CFM (L/M/H)	494 / 530 / 600
	Output	Watts	290
	External Static	Standard ("WC)	0.58 in. WC
	Pressure	Min. / Max. ("WC)	0 / 0.80 in, WC
Condenser			BLDC With Axial Type Fan (1)
Congenser Fan	Motor FLA / Watts / CFM (max.)		1.25A X 1 / 125W X 1 / 2,154 CFM
			
	Certifications		_ 60335-2-40
Safety	Devices	PCB fuses, indoor unit terminal block thermal fuse, current transformer, over-voltage protection, crankcase heating.	

Performance data certified by AHRI to AHRI 210-240 (2023), Effective January 1st, 2023,

Proper sizing and installation of equipment is critical to achieve optimal performance. Split system air conditioners and heat pumps (excluding ductless systems) must be matched with appropriate coil components to meet ENERGY STAR criteria. Ask your contractor for details or visit

temperature limit protection logic, compressor overload sensing

Location TAG#1/2 8 More State State





General Information

- The outdoor unit shall supply power to indoor unit via 14 AWG X 3 power wire
- High-voltage terminal block temperature sensor to disable unit in the event of power connection overheating
- Auto-restart after power loss
- · Soft-start compressor minimizing current inrush
- · All heat exchangers shall be mechanically bonded aluminum fin to copper tube
- The condensing unit heat exchanger salt spray test method: ISO-9227- the heat exchanger showed no unusual rust or corrosion development to 3,000 hours.
- Base pan heater equipped as standard
- System shall provide 100% heating capacity at -4°F(-20°C)

Option settings

- The outdoor unit shall have snow accumulation prevention option setting to prevent snow drifting against an idle outdoor unit.
- Night-time Quiet Mode: reduction of operational sound during evening hours (automatic or manual activation).
- System can be set up as heating/cooling, cooling only, or heating only via outdoor unit option setting.
- Maximum Current Control configurable from 50% 100% via outdoor unit, wired controller, or central controller

Indoor Fan

- Indoor fan is a double Inlet, forward curve, centrifugal type
- Three fan speed settings and auto setting
- · Field configurable for downflow operation with optional conversion kit

Construction

- Outdoor unit shall be galvanized steel with a baked-on powder coated finish for durability
- Indoor Unit: Insulated, galvanized steel.

Controls

- Control wiring shall be 2 X 16 AWG
- No additional interface modules/adapters are required when connecting to Samsung central control options.
- The unit shall be operated via a wireless or wired remote control with DDC type signal
- Dual set temperature support when connected to MWR-WG00UN Advanced Wired Controller or central control options.
- Wired or wireless controllers must be purchased separately

Refrigerant System

- * The compressor shall be hermetically sealed, inverter-controlled BLDC rotary type.
- Refrigerant flow shall be controlled by an electronic expansion valve at outdoor unit

Warranty

10 Years compressor, 10 years parts, 1 year limited labor when registered

SAMSUNG

SUBMITTAL

AC018BNZDCH/AA (CNH18ZDB) / AC018BXADCH/AA (CXH18ADB) Page 2 of Samsung Multi-Position Air Handler, Single Zone Duct, Split System

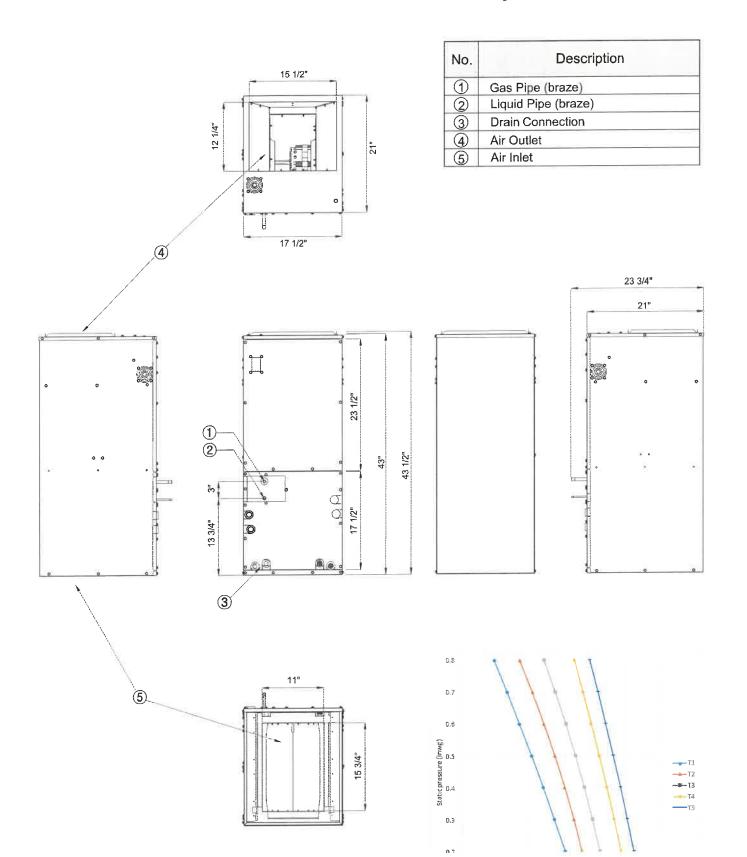
Optional Accessories

Wired Controller	Advanced	MWR-WG00UN
	Touchscreen	MWR-SH11UN
Thermostat Adaptor (for connection to a standard 24VAC thermostat)		MIM-A60UN
Wireless Signal	Wireless Signal Receiver	MRK-A10N
Control	Wireless Controller	AR-EH04U
Wi-Fi Adapter		MIM-H05UN
External Temperature Sensor		MRW-TA
Filter Base (includes	VFB-1	
External Contact Co	MIM-B14	
Wall Bracket (for outdoor unit)		CKN-250
Wind Baffles	Front	□□ WBF-7M
wind ballies	Back	WBB-7M-B
Hail Guard		HGK-2
Line Sets - insulated	25' - ILS-2507	
included		50' - ILS-5007
	VHK-103B (3 kW)	
Supplemental Electric Heat Kit		VHK-105B (5 kW)
Downflow Conversion Kit		VDK-1

MSUNG

SUBMITTAL

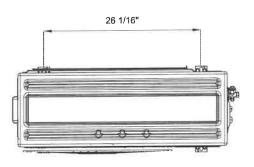
AC018BNZDCH/AA (CNH18ZDB) / AC018BXADCH/AA (CXH18ADB) Page 3 of 4 Samsung Multi-Position Air Handler, Single Zone Duct, Split System AC018BNZDCH/AA Dimensional Drawing



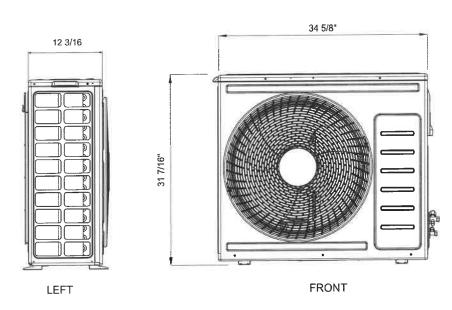
MSUNG

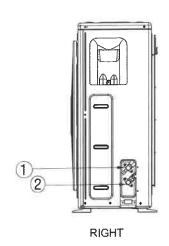
SUBMITTAL

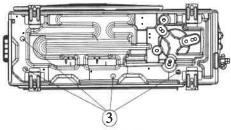
AC018BNZDCH/AA (CNH18ZDB) / AC018BXADCH/AA (CXH18ADB) Page 4 of Samsung Multi-Position Air Handler, Single Zone Duct, Split System AC018BXADCH/AA Dimensional Drawing



TOP







BO.	П	OM
-----	---	----

DOT TOW				
No.	Name	Description		
1	Refrigerant liquid pipe	Ø 1/4		
2	Refrigerant gas pipe	Ø 1/2		
3	Drain hole	Connect with provided drain plug		