MECHANICAL INDEX SHEET

LINE DESIGNATIONS

CF	CHEMICAL FEED
D	DRAIN
E	EXPANSION
EXH	EXHAUST
G	NATURAL GAS
GHWS	GLYCOL HOT WATER SUPPLY
GHWR	GLYCOL HOT WATER RETURN
GV	GAS VENT
HWS	HOT WATER SUPPLY
HWR	HOT WATER RETURN
NPW	NON-POTABLE WATER
OF	OVERFLOW
RL	REFRIGERANT LIQUID
RS	REFRIGERANT SUCTION
RD	REFRIGERANT DISCHARGE
ST	STORM WATER
V	VENT PIPING

PIPING LINE SYMBOLS, ELEMENTS/VALVING

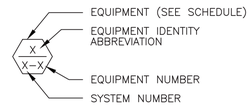
- EXISTING PIPING TO REMAIN
- EXISTING PIPING TO BE REMOVED
- NEW PIPING
- GATE VALVE
- GLOBE VALVE
- OR — BUTTERFLY VALVE
- BALL VALVE
- OS&Y GATE VALVE
- SWING CHECK VALVE
- TRIPLE DUTY VALVE
- GATE VALVE, ANGLE
- AUTO FLOW CONTROL VALVE
- CBV — CIRCUIT SETTING BALANCING VALVE
- THREE WAY CONTROL VALVE
- TWO WAY CONTROL VALVE
- VALVE-QUICK CLOSING
- RELIEF/SAFETY VALVE
- MV — MANUAL AIR VENT
- AV — AUTOMATIC AIR VENT (EXTEND DISCHARGE TO DRAIN)
- R, D — DIRECTION OF FLOW
- DIRECTION OF PITCH-RISE / DROP
- STRAINER
- STRAINER WITH BLOW OFF VALVE
- PIPE RISING UP
- PIPE DROPPING DOWN
- TEE OUTLET UP
- TEE OUTLET DOWN
- CONCENTRIC REDUCER
- ECCENTRIC REDUCER
- UNION — SCREWED OR FLANGED
- A — ANCHOR
- G — GUIDE
- EJ — EXPANSION JOINT
- TI OR PI — THERMOMETER
- PI OR PI — GAUGE WITH GAUGE COCK & SYPHON (STEAM)
- AQUASTAT
- FLEXIBLE CONNECTION

NOTE: NOT ALL SYMBOLS, ABBREVIATIONS AND EQUIPMENT ABBREVIATIONS INDICATED APPEAR ON THESE CONTRACT DRAWINGS

ABBREVIATIONS

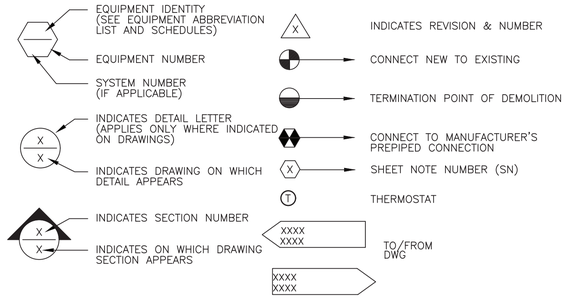
AAV	AUTOMATIC AIR VENT	GA	GAUGE	RL	REFRIGERANT LIQUID
ABV	ABOVE	GAL	GALLON	RLA	RATED LOAD AMPS
AD	ACCESS DOOR	GALV	GALVANIZED	RS	REFRIGERANT SUCTION
ADR	AREA DRAIN (SEE SYMBOLS)	GC	GENERAL CONTRACTOR	RM	ROOM
AFF	ABOVE FINISHED FLOOR	GPD	GALLONS PER DAY	RPM	REVOLUTIONS PER MINUTE
ALUM	ALUMINUM	GPH	GALLONS PER HOUR	–	–
AP	ACCESS PANEL	GPM	GALLONS PER MINUTE	SA	SUPPLY AIR
ATC	AUTOMATIC TEMPERATURE CONTROL	GR	GRILLE	SCH	SCHEDULE
AVER	AVERAGE	GRS/LB	GRAINS PER POUND	SCHEM	SCHEMATIC
AWT	AVERAGE WATER TEMPERATURE	–	–	SH	SENSIBLE HEAT
–	–	HT	HEIGHT	SIP	STERILIZE IN PLACE
BDD	BACK DRAFT DAMPER	H_2O	WATER	SP	STATIC PRESSURE
BFP	BACK FLOW PREVENTOR	HB	HOSE BIBB	SPEC	SPECIFICATION
BD	BLAST DAMPER	HD	HEAD (SEE SCHEDULES)	SQ	SQUARE
BLDG	BUILDING	HP	HORSEPOWER	SS	STAINLESS STEEL
BLW	BELOW	HR	HOUR	SSST	SUPPORT STEEL
BM	BELL MOUTH	HTR	HEATER	STD	STANDARD
BSMT	BASEMENT	HZ	HERTZ	STL	STEEL
BTU	BRITISH THERMAL UNIT	–	–	STM	STEAM
–	–	ID	INSIDE DIMENSION	STR	STRUCTURAL
CAP	CAPACITY	IN	INCHES	SUCT	SUCTION
CBV	CIRCUIT BALANCING VALVE	INCL	INCLUDING	SUP	SUPPLY
CF	INLINE EXHAUST FAN	INT	INTERNAL	SYS	SYSTEM
CFH	CUBIC FEET PER HOUR	INV	INVERT	–	–
CFM	CUBIC FEET PER MINUTE	–	–	TAD	TRANSFER AIR DUCT
CHP	CONCRETE HOUSEKEEPING PAD	KW	KILOWATT	TDH	TOTAL DYNAMIC HEAD
CI	CAST IRON	–	–	TEMP	TEMPERATURE
CIP	CLEAN IN PLACE	L	LENGTH	TOT	TOTAL
℄	CENTER LINE	LAT	LEAVING AIR TEMPERATURE	THT	TOTAL HEAT
CLG	CEILING	LB	POUND	TP	TOTAL PRESSURE
CO	CLEAN OUT	LBS/HR	POUNDS PER HOUR (#/HR)	TS	TEMPERATURE SWITCH
COL	COLUMN	LD	LINEAR DIFFUSER	TSP	TOTAL STATIC PRESSURE
COMP	COMPRESSOR	LIN	LINEAR	TT	TEMPERATURE TRANSMITTER
CON	CONCENTRIC	LIQ	LIQUID	TYP	TYPICAL
CONC	CONCRETE	LRA	LOCK ROTOR AMPS	–	–
COND	CONDENSATE	LVG	LEAVING	UC	UNDERCUT
CONN	CONNECTION	LVR	LOUVER	UNOCC	UNOCCUPIED
CONT'N	CONTINUATION	LWT	LEAVING WATER TEMPERATURE	–	–
CONTR	CONTRACTOR	–	–	V	VOLTS
CVS	CONTROL VALVE STATION	MC	MECHANICAL CONTRACTOR	VA	VALVE
–	–	MBH	THOUSANDS OF BTU PER HOUR	VB	VACUUM BREAKER
DA	DIRECT ACTING	MED	MEDIUM	VD	VOLUME DAMPER
DAMP	DAMPER	MFR	MANUFACTURER	VEL	VELOCITY
DB	DRY BULB	MH	MANHOLE	VI	VIBRATION ISOLATOR
DEPT	DEPARTMENT	MIN	MINIMUM	VOLT	VOLTAGE
DIA	DIAMETER	MISC	MISCELLANEOUS	VTR	VENT THRU ROOF
DIAG	DIAGRAM	MTD	MOUNTED	–	–
DIFF	DIFFERENTIAL	MVD	MANUAL VOLUME DAMPER	W	WIDTH
DISCH	DISCHARGE	–	–	W/	WITH
DIV	DIVISION	NC	NORMALLY CLOSED	W/O	WITHOUT
DIW	DOWN IN WALL	NEG	NEGATIVE	WB	WET BULB
DL	DOOR LOUVER	NIC	NOT IN CONTRACT	WC	WATER COLUMN
DN	DOWN	No	NUMBER	WG	WATER GAUGE
DWG	DRAWING	NO	NORMALLY OPEN	WT	WEIGHT
DX	DIRECT EXPANSION	NOM	NOMINAL		
–	–	NTS	NOT TO SCALE		
E	EXISTING	–	–		
EA	EACH	OA	OUTSIDE AIR		
EAT	ENTERING AIR TEMPERATURE	OB	OFF BOTTOM		
EC	ELECTRICAL CONTRACTOR	OD	OUTSIDE DIMENSION		
ECC	ECCENTRIC	OC	ON CENTER		
ECG	EGGCRATE GRILLE	OCC	OCCUPIED		
ECC	ENCLOSURE END CAP	OGH	OUTSIDE GROUND HYDRANT		
EFF	EFFICIENCY	OPG	OPENING		
EJ	EXPANSION JOINT	OS	OPEN SITE		
EL	ELEVATION	OT	OFF TOP		
ELEC	ELECTRIC	OV	OUTLET VELOCITY		
ELEV	ELEVATOR	OZ	OUNCE		
ENT	ENTERING	–	–		
EQ	EQUAL	PART	PARTIAL		
EQUIP	EQUIPMENT	PD	PRESSURE DROP (SEE SCHEDULE)		
ES	END SWITCH	PERF	PERFORATED		
ESP	EXTERNAL STATIC PRESSURE	PEX	CROSS-LINKED POLYETHYLENE		
ETC	AND SO FORTH	PH	PHASE		
EWT	ENTERING WATER TEMPERATURE	PG	PROPYLENE GLYCOL		
EXH	EXHAUST	PNEU	PNEUMATIC		
EXPAN	EXPANSION	POS	POSITIVE		
EXT	EXTERNAL	PPH	POUNDS PER HOUR		
–	–	PRESS	PRESSURE		
°F	DEGREES FAHRENHEIT	PS	PRESSURE SWITCH		
FA	FROM ABOVE	PSI	POUNDS PER SQUARE INCH GAUGE		
FB	FROM BELOW	PSIG	POUNDS PER SQUARE INCH GAUGE		
FC	FAIL CLOSED	PSIA	POUNDS PER SQUARE INCH ABSOLUTE		
FCV	FLOW CONTROL VALVE	PT	PRESSURE TRANSMITTER		
FD	FLOOR DRAIN	PV	PLUG VALVE		
F/D	FIRE DAMPER	PVC	POLYVINYL CHLORIDE		
FG	FILTER GRILLE	PVS	POLYVINYL COATED STEEL		
FIN	FINISHED	–	–		
FL	FLANGE	QUAN	QUANTITY		
FLA	FULL LOAD AMPS	–	–		
FLEX	FLEXIBLE	R	REGISTER		
FLR	FLOOR	RA	RETURN AIR		
FO	FAIL OPEN	RAC	RUN ABOVE CEILING		
FOB	FLAT ON BOTTOM	RAF	RUN ABOVE FLOOR		
FOT	FLAT ON TOP	RATC	RUN AT CEILING		
FP	FIRE PROTECTION	RBC	RUN BELOW CEILING		
FPH	FEET PER HOUR	RBF	RUN BELOW FLOOR		
FPM	FEET PER MINUTE	RBG	RUN BELOW GRADE		
FPS	FEET PER SECOND	RBJ	RUN BETWEEN JOIST		
FRICT	FRICTION	RCP	REINFORCED CONCRETE PIPE		
FS	FLOW SWITCH	RD	ROOF DRAIN		
F/S/D	COMBINATION FIRE AND SMOKE WITH ACCESS DOOR	RE	ROUNDED ENTRANCE/EXIT		
		REL	RELIEF		
FT	FEET	REQD	REQUIRED		
FTB	FLOOR TO BOTTOM	RET	RETURN		
FTR	FINNED TUBE RADIATION	RH	RELATIVE HUMIDITY		
FV	FACE VELOCITY	RICW	RUN IN CASEWORK		
FXC	FLEXIBLE CONNECTION	RIE	RUN IN ENCLOSURE		

EQUIPMENT ABBREVIATIONS



AB	AIR BLENDER	IRH	INFRARED HEATER
AC	AIR CONDITIONING UNIT	–	–
ACC	AIR COOLED CONDENSER	LFM	LAMINAR FLOW MODULE
AHU	AIR HANDLING UNIT	–	–
AM	AIR MEASURING DEVICE	MB	MIXING BOX
AS	AIR SEPERATOR	–	–
–	–	P-BF	PUMP – BOILER FEED
B	BOILER	P-C	PUMP – CONDENSER WATER
BFS	BOILER FEED SET	P-CF	PUMP – CHEMICAL FEED
BIBO	BAG IN/BAG OUT FILTER	P-CH	PUMP – CHILLED WATER
–	–	P-CO	PUMP – CONDENSATE
CC	COOLING COIL	P-DC	PUMP – DRY COOLER
CF	CHEMICAL FEED UNIT	P-ER	PUMP – ENERGY RECLAIM
CT	COOLING TOWER	P-FO	PUMP – FUEL OIL
CTF	COOLING TOWER FILTER	P-H	PUMP – HOT WATER
CU	CONDENSING UNIT	P-S	PUMP – SPARE
CUH	CABINET UNIT HEATER	P-TR	PUMP – TRANSFER
CV	AUTOMATIC CONTROL VALVE	PH	PREHEAT COIL
D	AUTOMATIC DAMPER	PHE	PENTHOUSE
DA	DEAERATOR	PRV	PRESSURE REDUCING VALVE
DC	DUST COLLECTOR	PS	PRESSURE SWITCH
DCR	DRY COOLER	–	–
DH	DOOR HEATER	R	REFRIGERATION UNIT
DHU	DEHUMIDIFICATION UNIT	RAD	RETURN AIR DEVICE
–	–	RAF	RETURN AIR FAN
(E)	EXISTING	RAH	RADIANT HEATER
EAD	EXHAUST AIR DEVICE	RD	RUPTURE DISC
EBR	ELECTRIC BASEBOARD RADIATION	RF	RELIEF AIR FAN
EDH	ELECTRIC DUCT HEATER	RH	REHEAT COIL
EF	EXHAUST FAN	RV	RELIEF VALVE
ERC	ENERGY RECLAIM COIL	RCF	RECIRCULATION AIR FAN
ET	EXPANSION TANK	–	–
EUH	ELECTRIC UNIT HEATER	SAD	SUPPLY AIR DEVICE
–	–	SF	SUPPLY FAN
F	FILTER	SRV	SAFETY RELIEF VALVE
FC	FAN COIL UNIT	ST	STORAGE TANK
FM	FLOW METER	STP	SOUND TRAP
FT	FLASH TANK	–	–
–	–	TAD	TRANSFER AIR DEVICE
GFU	GLYCOL FEED UNIT	TAF	TERMINAL AIR FILTER
–	–	TF	TRANSFER FAN
H	HUMIDIFIER	TU	TERMINAL UNIT
HC	HEATING COIL	TUE	TERMINAL UNIT – EXHAUST
HE	HEAT EXCHANGER	TUR	TERMINAL UNIT – RETURN
HP	HEAT PUMP	TUS	TERMINAL UNIT – SUPPLY
HR	HEAT RECOVERY UNIT	–	–
HTP	HEAT TRANSFER PACKAGE	UH	UNIT HEATER
HWC	HOT WATER CONVERTOR	–	–
		WF	WATER FILTER
		WS	WATER SOFTENER

REFERENCE SYMBOLS



GENERAL NOTES

1. ALL WORK SHALL BE PERFORMED IN A CLEAN AND WORKMANLIKE MANNER. CARE SHALL BE EXERCISED TO MINIMIZE ANY INCONVENIENCE OR DISTURBANCE TO OTHER AREAS OF THE BUILDING WHICH ARE TO REMAIN IN OPERATION. ISOLATE WORK AREAS BY MEANS OF TEMPORARY PARTITIONS AND/OR TARPS TO KEEP DUST AND DIRT WITHIN THE CONSTRUCTION AREA.
2. NO PIPING, EQUIPMENT, ETC. SHALL BE REMOVED, DISCONNECTED OR SHUT DOWN WITHOUT PRIOR REVIEW WITH THE OWNER AND/OR ENGINEER TO CONFIRM THAT AREAS TO REMAIN IN OPERATION WILL NOT BE AFFECTED. IF ANY AREAS NOT WITHIN THE SCOPE OF WORK ARE AFFECTED BY ANY SHUTDOWN, REMOVAL OR DISCONNECTION, SUFFICIENT ADVANCE NOTICE MUST BE GIVEN TO THE OWNER INDICATING WHICH AREAS WILL BE AFFECTED, WHEN THE PROPOSED SHUTDOWN WILL OCCUR, AND FOR HOW LONG A PERIOD OF TIME.
3. ALL ITEMS REMOVED SHALL BECOME PROPERTY OF THE OWNER AND SHALL BE DISPOSED OF AS PER THE OWNER'S INSTRUCTIONS, UNLESS INDICATED OTHERWISE. ALL ITEMS WHICH ARE NOT TO BE STORED ON SITE BY OWNERS SHALL BE REMOVED FROM THE BUILDING IMMEDIATELY.
4. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO PROCEEDING WITH ANY WORK. WHERE DISCREPANCIES OCCUR BETWEEN THESE DOCUMENTS AND EXISTING CONDITIONS, THE DISCREPANCY SHALL BE REPORTED TO THE OWNER AND/OR ENGINEER FOR EXPEDITING AND RESOLVE.
5. CLEAN THE JOB SITE DAILY AND REMOVE FROM THE PREMISES ANY DIRT AND DEBRIS CAUSED BY THE PERFORMANCE OF THE WORK INCLUDED IN THIS CONTRACT.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFEKEEPING OF HIS OWN PROPERTY ON THE JOB SITE. OWNER ASSUMES NO RESPONSIBILITY FOR PROTECTION OF PROPERTIES AGAINST FIRE, THEFT AND ENVIRONMENTAL CONDITIONS
7. SUCCESSFULLY PRESSURE TEST ALL PIPING SYSTEMS. TEST SHALL BE PERFORMED AT NORMAL SYSTEM OPERATING PRESSURES. REPAIR AND RETEST AS REQUIRED UNTIL SYSTEMS PROVE TIGHT.
8. PROVIDE ALL NECESSARY TEMPORARY OR PERMANENT CAPS OR PLUGS FOR PIPING. DO NOT LEAVE PIPING OPEN ENDED.
9. WHERE USED, THE TERM "PROVIDE" SHALL MEAN "FURNISH AND INSTALL"
10. CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL OTHER TRADES PRIOR TO FABRICATION, PURCHASE AND/OR INSTALLATION OF ALL WORK.
11. IF CONTRACTOR ENCOUNTERS WHAT APPEARS TO BE A HAZARDOUS OR QUESTIONABLE MATERIAL, HE SHALL DISCONTINUE WORK IMMEDIATELY AND CONTACT THE OWNERS REPRESENTATIVE.
12. IF A DISCREPANCY ARISES BETWEEN THE DRAWINGS AND THE SPECIFICATIONS, CONTACT THE ARCHITECT/ENGINEER FOR RESOLUTION BEFORE PROCEEDING.
13. IN EVENT THAT ANY ASBESTOS IS FOUND ON THE JOB SITE, REMOVAL SHALL TAKE PLACE IN ACCORDANCE WITH ALL APPLICABLE CODES, OSHA REGULATION 1901.1, INCLUDING STATE AND FEDERAL DUMPING GROUNDS.
14. THE WORK SHALL BE PROVIDED IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2018 INTERNATIONAL MECHANICAL CODE AND THE 2018 INTERNATIONAL ENERGY CONSERVATION CODE.

100% RFC SUBMISSION

DESIGNED	EJD
DRAWN	EJD
CHECKED	AVB
APPROVED	AVB

STATE OF NEW YORK — ANTHONY V. BAYER — LICENSED — 060529 — PROFESSIONAL ENGINEER

NO.	DATE		DRWN	CHKD	APPVD

REVISION

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NO.	DATE		DRWN	CHKD	APPVD

REVISION

STV 100 Years
225 PARK AVENUE SOUTH,
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MTA Metro-North Railroad
420 Lexington Avenue
New York, NY 10017

TITLE
HARTSDALE AND SCARSDALE STATION IMPROVEMENTS
SYMBOLS LEGEND ABBREVIATIONS & GENERAL NOTES
HARTSDALE STATION

CONTRACT NO. 1000106733

SCALE

DATE 07/09/2021

DRAWING NO. HTD-M-001

SHEET 87 OF 99

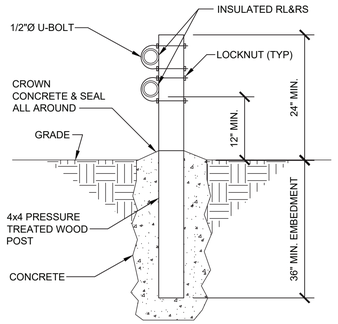
HEAT PUMP, AIR-COOLED, SPLIT-SYSTEM, DX UNIT COMPRESSOR/CONDENSER SCHEDULE

TAG. NO.	LOCATION	BASIS OF DESIGN MANUFACTURER	SYSTEM SERVED	CONDENSER FAN CFM	COOLING CAP. (BTUH)	COOLING EFFICIENCY EER	HEATING COP @ 47°F	CONDENSING O.A. TEMP. (°F DB)		COMPRESSOR MOTOR		COMPRESSOR TYPE	FAN MOTORS WATTS	MODEL No.	UNIT ELECTRICAL POWER (V/PH/HZ)	UNIT FLA (AMPS)	UNIT MCA (AMPS)	UNIT MFA (AMPS)	REFRIG. TYPE	UNIT OVERALL DIMENSIONS (IN.) (LxWxH)	REMARKS
								COOLING	HEATING	QTY.	RLA										
ACC-1	ON GRADE	MITSUBISHI	AC-1	3,880	36,000	10.8	4.52	115	0	1	8	INVERTER DRIVEN SCROLL, HERMETIC	(2) 74	PUZ-A36NKA7	208/1/60	13	25	31	R410A	18x42x53	SEE NOTES
ACC-2	ON GRADE	MITSUBISHI	AC-2	3,880	36,000	10.8	4.52	115	0	1	8	INVERTER DRIVEN SCROLL, HERMETIC	(2) 74	PUZ-A36NKA7	208/1/60	13	25	31	R410A	18x42x53	SEE NOTES

NOTES:
1. UNIT MOUNTED ON CONCRETE PAD.
2. INDOOR UNIT POWERD FROM OUTDOOR.
3. PROVIDE WITH WIND BAFFLE FOR LOW-AMBIENT OPERATION CAPABILITY DOWN TO AT LEAST ZERO °F.
4. THE CONTRACTOR SHALL CONFIRM THE CORRECT SIZES OF THE RL AND RS REFRIGERANT PIPING OF EACH AC/ACC UNIT SYSTEM WITH THE APPROVED EQUIPMENT MANUFACTURER.

HEAT PUMP, AIR-COOLED, SPLIT-SYSTEM, DX UNIT EVAPORATOR SCHEDULE

TAG. NO.	ASSOCIATED ACC UNIT	LOCATION	BASIS OF DESIGN MANUFACTURER	HIGH SPEED SUPPLY CFM	GROSS COOLING CAPACITY (BTUH)	SENSIBLE COOLING CAPACITY (BTUH)	FAN MOTOR W	UNIT ELECTRICAL POWER		MODEL No.	MOUNTING ARRANGEMENT	REMARKS
								VOLT/PH/HZ	FLA (AMPS)			
AC-1	ACC-1	EMR	MITSUBISHI	810	36000	25000	56	208/1/60	.57	PKA-36KA7	WALL MOUNTED	-
AC-2	ACC-1	EMR	MITSUBISHI	810	36000	25000	56	208/1/60	.57	PKA-36KA7	WALL MOUNTED	-



EXTERIOR REFRIGERANT PIPE SUPPORT DETAIL

NO SCALE

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TITLE
HARTSDALE AND SCARSDALE STATION IMPROVEMENTS

DETAILS & SCHEDULES

HARTSDALE STATION

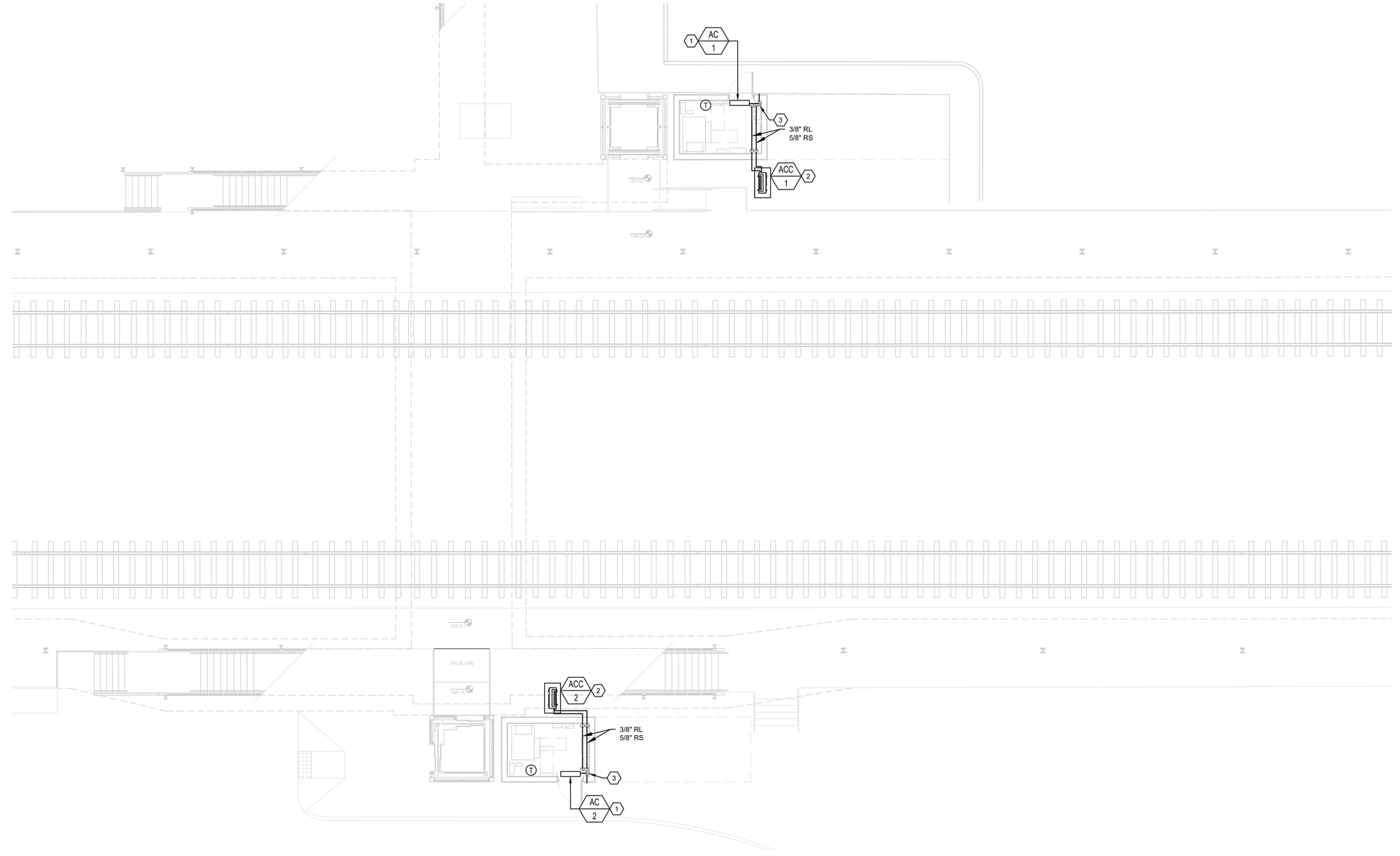
CONTRACT NO.
1000106733

SCALE

DATE
07/09/2021

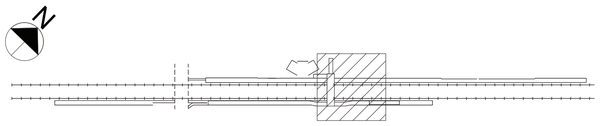
DRAWING NO.
HTD-M-002

SHEET 88 OF 99



KEY NOTES:

1. PROVIDE WALL MOUNTED AC UNITS ABOVE DOORWAY. UNITS SHALL BE PROVIDED WITH DEDICATED, FACTORY FURNISHED, THERMOSTAT CONTROLLER AS SPECIFIED WITH AUTOMATIC CHANGEOVER BETWEEN HEATING AND COOLING MODES.
2. PROVIDE ACC UNITS ON 12" HIGH CONCRETE PAD. FIELD ROUTE REFRIGERANT LINES TO ASSOCIATED INDOOR AC UNITS. SEE SPECIFICATION SECTION 230719 FOR INSULATION AND JACKETING ON BOTH RL & RS PIPING.
3. FIELD ROUTE CONDENSATE DRAIN LINE TO 1" AFF AND PENETRATE FACADE. SPILL CONDENSATE ON GRADE AND PROVIDE SLEEVE AND SEAL AT PENETRATION.



1 MECHANICAL PLATFORM PART PLAN

1/8"=1'-0"

0 4' 8' 16'

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HARTSDALE AND SCARSDALE STATION IMPROVEMENTS
MECHANICAL PLATFORM PART PLAN
HARTSDALE STATION

CONTRACT NO. 1000106733
SCALE
DATE 07/09/2021
DRAWING NO. HTD-M-003
SHEET 89 OF 99