# **CITY OF NEWBURGH ORANGE COUNTY, NEW YORK** WASTEWATER TREATMENT PLANT (WWTP) ADMIN BUILDING RENOVATION



PROJECT LOCATION **2 RENWICK STREET** 

NEWBURGH, NY 12550

LEGAL ENTITY: ARCADIS OF NEW YORK, INC.



# **BID NUMBER - 7.24**

# **SEPTEMBER 2024**



SITE LAYOUT

NOTE: SCALES SHOWN HEREIN ARE FOR FULL SIZE PLOTS. CONTRACTOR SHALL BE RESPONSIBLE FOR CONVERTING SCALES ON REDUCED OR ENLARGED PLOTS.

AREA TO BE COORDINATED WITH

OWNER



SHEET NO	DWG NO	DRAWING LIST DRAWING TITLE
1	C 01	
1	G-01	
Z	G-02	CODE DATA
		ARCHITECTURAL
3	A-01	ABBREVIATIONS, LEGEND AND NOTES
4	A-02	LIFE SAFETY PLAN AND NOTES
5	A-03	
6	A-04	DEMOLITION ELEVATIONS
/	A-10	FIRST FLOOR PLAN
8	A-11	
9	A-12	
10	A-13	
11	A-14	LAB PLAN, ELEVATIONS AND EQUIPMENT SCHEDULE
12	A-20 A-21	
13	A-21 A-22	
14	Δ-22	
16	A-24	
17	A-25	
18	A-26	PANTRY DETAILS
19	A-50	DETAILS
20	A-51	DETAILS II
21	A-52	SCHEDULES, DOOR AND WINDOW TYPES, LEGENDS
		STRUCTURAL
22	S-01	GENERAL NOTES
23	S-02	ABBREVIATIONS
24	S-50	SECTIONS AND DETAILS 1
25	S-51	SECTIONS AND DETAILS 2
26	S-52	TYPICAL DETAILS 1
27	S-53	TYPICAL DETAILS 2
		HVAC
28	H-01	ABBREVIATIONS, LEGEND AND NOTES
29	H-02	DEMOLITION PLANS
30	H-10	FIRST FLOOR PLAN
31	H-11	ROOF PLAN
32	H-50	SCHEDLUES 1
33	H-51	AIR RISER DIAGRAMS / VENTILATION SCHEDULE
34	H-52	DETAILS 1
35	H-53	DETAILS 2
36	H-54	DETAILS 3
37	H-55	CONTROL DIAGRAM
		PLUMBING
38	P-01	NOTES AND ABBREVIATIONS
39	P-10	FIRST FLOOR PLAN
40	P-11	ROOF PLAN
41	P-30	RISER DIAGRAMS
42	P-50	SCHEDULES
43	P-51	DETAILS
		ELECTRICAL
44	E-01	SYMBOLS, LEGENDS AND ABBREVIATIONS
45	E-02	ONE LINE DIAGRAM
46	E-10	FIRST FLOOR POWER PLAN
47	E-11	FIRST FLOOR LIGHTING PLAN
48	E-12	ROOF POWER PLAN
49	E-50	PANEL SCHEDULE
50	E-51	BLOCK DIAGRAM
51	E-52	MISCELLANEOUS DETAILS
	WARI FOR	NING - IT IS A VIOLATION OF NEW YORK EDUCATION LAW SECTION ANY PERSON UNLESS HE IS ACTING UNDER THE DIRECTION OF A I

7209.2 LICENSED PROFESSIONAL ENGINEER, ARCHITECT, OR LAND SURVEYOR, TO ALTER THIS DOCUMENT IN ANY WAY. IF ALTERED THE ALTERING PERSON SHALL COMPLY WITH THE REQUIREMENTS OF NEW YORK EDUCATION LAW, SECTION 7209.2

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BUILDING CODE CHART: IBC 2018, AS MODIFIED BY THE STATE OF NEW YORK, AND NEW YORK STATE EXISTING BUILDING CODE 2020		SCC 2020 AS MODIFIED BY TF		REQUIR	ED VERIFICATION	AND INSPECTION	I (2018 IBC 1705)	
						CONSTR.	INDEPENDENT	LEGAL ENTITY: ARCADIS OF NEW YORK, INC.
NFPA 820 CLASSIFICATION     NO	COMPLIANCE PATH (SECTION C401.2)	IECC PR	ESCRIPTIVE METHOD			DOCUMENTS NOT REQUIRED	INSPECTOR	CONSULTANTS
BUILDING (MAIN) OCCUPANCY (CHAPTER 3) B MIXED USE FACILITY YES B.H					SECTION 1705.2		NA	
ROOM SEPARATION RATING2B-HCONSTRUCTION CLASSIFICATION (CHAPTER 5)II-B	EXEMPTION		NA		SECTION 1705.3	NOT REQUIRED	NA	
UILDING HEIGHT ALLOWABLE ACTUAL EXSTG. 14.5'		BUILDING ENVELOPE REQUIREMENTS (TABLE C402.1.3	BUILDING ENVELOPE DESIGN		SECTION 1705.4	NOT REQUIRED	NA	
IUMBER OF STORIESALLOWABLEACTUALEXSTG.1								
LOWABLE AREA PER FLOOR ALLOWABLE ACTUAL FLOOR 1 NO CHANGE NO CHANGE	INSULATION ENTIRELY ABOVE DECK	ROOF ASSEMBLIES: R-30ci	EXISTING - NO CHANGE		SECTION 1705.7	NOT REQUIRED	NA	
FIRE SEPARATION DISTANCE RATINGS (TABLE 602):		WALLS BELOW GRADE:			SECTION 1703.7		NA .	
STANCE LESS THAN 5' 3 3 STANCE DETWIEEN 5' 8 10' 2 2	BELOW-GRADE WALL	R-7.5ci	EXISTING - NO CHANGE	CAST-IN-PLACE DEEP FOUNDATIONS	SECTION 1705.8	NOT REQUIRED	NA	SEALS
STANCE BETWEEN 3 & 10         2         2           STANCE BETWEEN 10' & 30'         2         2	MASS	R-11.4ci	R-11.4ci	HELICAL PILE FOUNDATIONS	SECTION 1705.9	NOT REQUIRED	NA	A A A A A A A
FIRE RESISTANCE RATING REQ'TS FOR BLDG ELEMENTS (TABLE 601):		SLAB ON GRADE FLOORS:			SECTION 1705 10	NOT REQUIRED	ΝΔ	
RIMARY STRUCTURAL FRAMING*REQUIREDPROVIDED2	HEATED	R-15 for 36" below +R-5 full slab	R-15 for 36" below +R-5 full slab					 023835 OF
ARING WALLS - EXTERIOR02ARING WALLS - INTERIOR02	-	BUILDING ENVELOPE		WIND RESISTANCE	SECTION 1705.11	NOT REQUIRED	NA	9
ON BEARING WALLS - EXTERIOR SEE FIRE SEPARATION DISTANCE BATINGS	FENESTRATION (U-factor)	REQUIREMENTS (TABLE C402.4)	BUILDING ENVELOPE DESIGN	SEISMIC RESISTANCE	SECTION 1705.12	NOT REQUIRED	NA	ORANGE COUNTY, NEW YORK CITY OF NEWBURGH
DISTANCE RATINGS		0.38	0.38	SPRAYED FIRE-RESISTANT	SECTION 1705.14	NOT REQUIRED	NA	
OOR CONSTRUCTION02OOE CONSTRUCTION02	ENTRANCE DOORS	0.45	0.45	MASTIC AND INTUMESCENT FIRE-		NOT REQUIRED		
INTERIOR FINISHES (TABLE 803.5) :		SHGC - ALL FRAME TYPES:		RESISTANT COATINGS	SECTION 1705.15		NA	
IT ACCESS CORRIDORS & OTHER EXIT WAYS A A A	SHGC: PF < 0.25 SHGC: 0.25 PF < 0.5	0.38	0.38	EXTERIOR INSULATION AND FINISH SYSTEMS (EIFS)	SECTION 1705.16	NOT REQUIRED	NA	
DOMS AND ENCLOSED SPACESBBFIRE PROTECTION SYSTEMS (CHAPTER 9):	SHGC: PF 0.5	0.58	0.58	FIRE -RESISTANT PENETRATIONS	SECTION 1705.17	REQUIRED	REQUIRED	TREATMENT PLAN
REQUIRED PROVIDED		SKYLIGHTS (3% MAXIMUM): NONE	 [			NOT REQUIRED		 (WWTP) ADMIN
TOMATIC SPRINKLER SYSTEMS (SECTION 903) NO NO		AIR LEAKAGE (C402.5)	MAX 0.29 CEM/SE	SMOKE CONTROL	SECTION 1705.18		NA	RENOVATION
ECTION 904)						NOTES		
ANDPIPE SYSTEMS (SECTION 905)NONOORTABLE FIRE EXTINGUISHERS (SECTION 906)YESYES	WALL ASSEMBLIES (C402.5.1.2.2)	MAX 0.04 CFM/SF at 0.3 INCHES W.G.	MAX 0.04 CFM/SF at 0.3 INCHES W.G.	FIXTURE CO	OUNT CHART			
RE ALARM AND DETECTION SYSTEMS(SECTION 907) NO NO	BUILDING TEST REQUIRED (C402.4.1.2.3)	MAX 0.40 CFM/SF at 0.3 INCHES	NOT REQUIRED		L	JSE 1		ARCADIS PROJ. NO. 30183827
IERGENCY ALARM SYSTEMS (SECTION 908) YES YES		W.G.		BUILDING OCCUPANCY TYPE BUILDING OCCUPIED OR UNOCCUPIED	)	B YES		
IERGENCY RESPONDER SAFETY FEATURESNONOECTION 914)NONO	LOUVER DAMPERS (C402.5.5)	WAX 4.00 CFM/SF at 1.0 INCHES W.G.	NOT REQUIRED	MINIMUM NUMBER OF REQ (2018 Building Code of New	UIRED PLUMBING FIXTU	JRES		
MEANS OF EGRESS (CHAPTER 10):		TABLE C402.5.2	TABLE C402.5.2           MAX 0.20 CEM/2E or 0.20 CEM/2E of 0.24 D2E	MALE OCCUPANT LOAD = 6	REQUIRED	PROVIDED		
ALLOWABLE		6.24 PSF	at MAX 0.20 CFM/SF of 0.30 CFM/SF at 6.24 PSF	MALE WATER CLOSETS MALE LAVATORIES	1 1	1		
CCUPANT LOAD CHART (TABLE 1004.5) (REFERENCE DDE COMPLIANCE PLAN) 11	STOREFRONT GLAZING	MAX 0.06 CFM/SF	MAX 0.06 CFM/SF	MALE SHOWERS FEMALE OCCUPANT LOAD = 6	0 REQUIRED	1 PROVIDED		NO. DATE ISSUED FOR
BUSINESS AREAS	DOORS	MAX 1.00 CFM/SF	MAX 1.00 CFM/SF	FEMALE WATER CLOSETS	1	1		
STORAGE AREAS	REVOLVING DOORS	MAX 1.00 CFM/SF	NOT REQUIRED	FEMALE SHOWERS	0			COPYRIGHT: ARCADIS OF NEW YORK 2014 INC.
300 GROSS GRESS WIDTH PER OCCUPANT LOAD - STAIRWAYS	MAX_AIR LEAKAGE R	MAX 1.00 CFM/SF	IES (TABLE C402.5.2)	DRINKING FOUNTAIN	1	1*		
SECTION 1005.3) MIN 36" N/A	WINDOW, SIDING DOOR ASSEMBLIES				0	0		DATE: SEPTEMBER 2024 PROJECT NO.: 30183827
MPONENTS (SECTION 1005.3) MIN 36" MIN 36"	SWINGING DOOR ASSEMBLIES			FIXTURE COUNT NOTES				FILE NAME:
06.3.2) TABLE 1006.3.3.3(2) NO	BUILDING CODE NOTES			<ol> <li>* PANTRY SINK PROVIDED.</li> <li>EXISTING CHEMICAL STORAGE I</li> </ol>	NOT PART OF WORK SC	OPE.		DESIGNED BY: ED
ACES WITH ONE MEANS OF EGRESS (TABLE NO	1.         ALTERATION AND RENOVATION WORK SHALL CO           1.1         2020 EXISTING BUILDING CODE OF NEW YORK ST	OMPLY WITH THE NEW YORK STATE BUILD TATE (EBC)	ING CODES:	RESTROOM ACCESS IS PROVIDE	ED WITHIN 500 FEET PEI	R SECTION		DRAWN BY: GF
T ACCESS TRAVEL DISTANCE (REFERENCE CODE	<ul> <li>1.2 2020 BUILDING CODE OF NEW YORK STATE (BC)</li> <li>1.3 2020 FIRE CODE OF NEW YORK STATE (FC)</li> </ul>			D02002.0.0.				CHECKED BY: LA
MPLIANCE PLAN) 38' BRIDOR FIRE-RESISTANCE RATING 0 0	1.4         2020 MECHANICAL CODE OF NEW YORK STATE (I           1.5         2020 PLUMBING CODE OF NEW YORK STATE (PC)	MC) )						SHEET TITLE
ACCESSIBILITY (ANSI/ ADAAG/2020 NYS):	<ul> <li>1.6 2020 FUEL GAS CODE OF NEW YORK STATE(FGC</li> <li>1.7 2020 ENERGY CONSERVATION CONSTRUCTION (</li> </ul>	:) CODE OF NEW YORK STATE (ECC)						GENERAL
REQUIRED PROVIDED	<ul> <li>1.8 2020 NEW YORK STATE ELECTRICAL CODE (NFP)</li> <li>2. ALTERATION AND RENOVATION WORK SCOPE SI</li> </ul>	A 70-17) (EC) HALL COMPLY WITH THE EBC WORK AREA	COMPLIANCE METHOD PER SECTION BC301.3.2. WORK					
CESSIBLE ROUTE YES YES YES	2.1 SCOPE IS DEFINED AS FOLLOWS: 2.1 REPAIR (EBC CHAPTER 4) - THE RECONSTRUCTION	ON, REPLACEMENT OR RENEWAL OF ANY	PART OF AN EXISTING BUILDING FOR THE PURPOSE OF	:				
CESSIBLE ENTRANCE YES YES	MAINTENANCE OR TO CÓRRECT DAMAGE. - SINGLE TEE END COATING							CODE DATA
UIPMENT SPACES NO NO	2.2 ALTERATIONS - LEAVE 2 (EBC CHAPTER 7) - THE EQUIPMENT, OR FIXTURES USING NEW MATE	REMOVAL AND REPLACEMENT OR THE CO ERIALS, ELEMENTS, EQUIPMENT, OR FIXTU	VERING OF EXISTING MATERIALS, ELEMENTS, IRES THAT SERVE THE SAME PURPOSE.					
ARKING	- ROOF CURBS - ROOF COATING 2.3 ALTERATIONS - EVEL 3 (EBC OUNDTED 7, 0, 00)							
YES YES	- INTERIOR RENOVATION OF B OCCUPANCY							
R - NOT REQUIRED: NA - NOT APPLICARI E: HR = HOLIR(S): ET - EEET: RLDC - RUILDING:	3. FEMA FIRM 36071C0333E DATED 8/3/2009 DOES I FLOOD HAZARD. PER SECTION EBC701.3 FLOOD	DESIGNATE PROPERTY AS A SPECIAL FLO HAZARD AREAS THE BUILDING SHALL BE I	OD HAZARD AREA WITH A 0.2% ANNUAL CHANCE OF PROTECTED. FLOOD PROTECTION SHALL BE PROVIDED	)				
ALT - ALTERNATE; GSF - GROSS SQUARE FEET; SPKR - SPRINKLER; W - WITH; W/O -	<ul> <li>BY OWNER IN AN ANCILLARY PROJECT.</li> <li>4. ACCESSIBILITY IS REQUIRED PER SECTION EBC</li> </ul>	305.3. ACCESSIBILITY SHALL BE PROVIDE	D TO RESTROOMS, OFFICES, LAB, AND PANTRY BY					
	5. AUTOMATIC SPRINKLER SYSTEM IS NOT REQUIR	RED PER SECTION EBC803.2 OR EBC904.1. I AND EBC904.1.4) THE B OCCURANCY IS OF	BUILDING IS OCCUPIED BY ONE TENANT AND HAS AN	F				
bof supports: Fire-resistance ratings of primary structural frame and bearing walls are permitted	6. ENERGY CODE COMPLIANCE SHALL BE IN ACCO	.1). RDANCE WITH SECTION FRC907 1 MINIM R	EQUIREMENTS WHICH DOES NOT REQUIRE THE ENTIRE	 E				SCALE: 12" = 1'-0"
be reduced by Thour where supporting a roor only.	BUILDING OR STRUCTURE TO COMPLY WITH THE 7. ALL CONTRACTORS SHALL BE REQUIRED TO FIL	E ENERGY REQUIREMENTS OF THE ECC. E AND OBTAIN REQUIRED PERMITS TO PEI	RFORM THEIR RESPECTIVE WORK. FEES WILL BE	-				G_02
	WAIVED.							G-02
								SHEET 2 OF 51
								-

Autodesk Docs://AUS-3 Rehab/A-3D-WPCP.rvt

### ABBREVIATIONS

LAV LPT

MFR

MATL

MAX MECH

MTL

MIN

MISC

NEC

NEMA

NFPA

N

NTS

NO

OC OPNG

OPP

OD

PNT

PVC

PVF PCP PSF

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QUAN

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SECT SHT

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W/OUT WD

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STRUCT SYS

SPECS

RAD REF REINF

ΡL PLBG

OHCD

MEZZ

1

ACOUS	
ADMIN	ACOUSTICAL CEILING TILE ADMINISTRATION
AFF	ABOVE FINISH FLOOR
ALUM ANSI	ALUMINUM AMERICAN NATIONAL
	STANDARDS INSTITUTE
BM BTWN	BEAM
BLK	BLOCK
BD	BOARD
BOI	BOTTOM OF
BRK	BRICK
BC	
CAB	CABINET
CIP	CAST IN PLACE
CLG CT	CERAMIC TILE
CLO	CLOSET
COL	COLUMN
CONC	CONCRETE CONCRETE MASONRY UNIT
CONSTR	CONSTRUCTION
CONT	
CORR	CORRIDOR
CU	CUBIC
	DEMOLITION
DIA	DIAMETER
DN	DOWN
DWG	
EA	EACH
E	EAST
EWC	
ELEC	ELECTRICAL
ELEC EL EMBED	ELECTRICAL ELEVATION EMBEDMENT
ELEC EL EMBED ENGR	ELECTRICAL ELEVATION EMBEDMENT ENGINEER
ELEC EL EMBED ENGR EQ	ELECTRICAL ELEVATION EMBEDMENT ENGINEER EQUAL
ELEC EL EMBED ENGR EQ EQUIP EX	ELECTRICAL ELEVATION EMBEDMENT ENGINEER EQUAL EQUIPMENT EXISTING
ELEC EL EMBED ENGR EQ EQUIP EX EXP	ELECTRICAL ELEVATION EMBEDMENT ENGINEER EQUAL EQUIPMENT EXISTING EXPANSION
ELEC EL EMBED ENGR EQ EQUIP EX EXP EJ EYT	ELECTRICAL ELEVATION EMBEDMENT ENGINEER EQUAL EQUIPMENT EXISTING EXPANSION EXPANSION JOINT EXTERIOR
ELEC EL EMBED ENGR EQ EQUIP EX EXP EJ EXT FT	ELECTRICAL ELEVATION EMBEDMENT ENGINEER EQUAL EQUIPMENT EXISTING EXPANSION EXPANSION JOINT EXTERIOR FEET
ELEC EL EMBED ENGR EQ EQUIP EX EXP EJ EXT FT FT	ELECTRICAL ELEVATION EMBEDMENT ENGINEER EQUAL EQUIPMENT EXISTING EXPANSION EXPANSION JOINT EXTERIOR FEET FIBER REINFORCED
ELEC EL EMBED ENGR EQ EQUIP EX EXP EJ EXT FT FT FRP	ELECTRICAL ELECTRICAL ELEVATION EMBEDMENT ENGINEER EQUAL EQUIPMENT EXISTING EXPANSION EXPANSION JOINT EXTERIOR FEET FIBER REINFORCED PLASTIC FINISH FLOOR
ELEC EL EMBED ENGR EQ EQUIP EX EXP EJ EXT FT FRP FIN FLR FE	ELECTRICAL ELEVATION EMBEDMENT ENGINEER EQUAL EQUIPMENT EXISTING EXPANSION EXPANSION JOINT EXTERIOR FEET FIBER REINFORCED PLASTIC FINISH FLOOR FIRE EXTINGUISHER
ELEC EL EMBED ENGR EQ EQUIP EX EXP EJ EXT FT FRP FIN FLR FE FIXT EL R	ELECTRICAL ELECTRICAL ELEVATION EMBEDMENT ENGINEER EQUAL EQUIPMENT EXISTING EXPANSION EXPANSION JOINT EXTERIOR FEET FIBER REINFORCED PLASTIC FINISH FLOOR FIRE EXTINGUISHER FIXTURE ELOOR
ELEC EL EMBED ENGR EQ EQUIP EX EXP EJ EXT FT FRP FIN FLR FE FIXT FLR FD	ELECTRICAL ELECTRICAL ELEVATION EMBEDMENT ENGINEER EQUAL EQUIPMENT EXISTING EXPANSION EXPANSION JOINT EXTERIOR FEET FIBER REINFORCED PLASTIC FINISH FLOOR FIRE EXTINGUISHER FIXTURE FLOOR FLOOR DRAIN
ELEC EL EMBED ENGR EQ EQUIP EX EXP EJ EXT FT FRP FIN FLR FE FIXT FLR FD FDTN	ELECTRICAL ELECTRICAL ELEVATION EMBEDMENT ENGINEER EQUAL EQUIPMENT EXISTING EXPANSION EXPANSION JOINT EXTERIOR FEET FIBER REINFORCED PLASTIC FINISH FLOOR FIRE EXTINGUISHER FIXTURE FLOOR FLOOR DRAIN FOUNDATION
ELEC EL EMBED ENGR EQ EQUIP EX EXP EJ EXT FT FRP FIN FLR FE FIXT FLR FD FDTN GA GALV	ELECTRICAL ELECTRICAL ELEVATION EMBEDMENT ENGINEER EQUAL EQUIPMENT EXISTING EXPANSION EXPANSION JOINT EXTERIOR FEET FIBER REINFORCED PLASTIC FINISH FLOOR FIRE EXTINGUISHER FIXTURE FLOOR FLOOR DRAIN FOUNDATION GAUGE GALVANIZED
ELEC EL EMBED ENGR EQ EQUIP EX EXP EJ EXT FT FRP FIN FLR FE FIXT FLR FD FDTN GA GALV GEN	ELECTRICAL ELECTRICAL ELEVATION EMBEDMENT ENGINEER EQUAL EQUIPMENT EXISTING EXPANSION EXPANSION JOINT EXTERIOR FEET FIBER REINFORCED PLASTIC FINISH FLOOR FIRE EXTINGUISHER FIXTURE FLOOR FLOOR DRAIN FOUNDATION GAUGE GALVANIZED GENERAL
ELEC EL EMBED ENGR EQ EQUIP EX EXP EJ EXT FT FRP FIN FLR FE FIXT FLR FD FDTN GA GALV GEN GR GXP	ELECTRICAL ELECTRICAL ELEVATION EMBEDMENT ENGINEER EQUAL EQUIPMENT EXISTING EXPANSION EXPANSION JOINT EXTERIOR FEET FIBER REINFORCED PLASTIC FINISH FLOOR FIRE EXTINGUISHER FIXTURE FLOOR FLOOR DRAIN FOUNDATION GAUGE GALVANIZED GENERAL GRADE GYPSI IM
ELEC EL EMBED ENGR EQ EQUIP EX EXP EJ EXT FT FRP FIN FLR FE FIXT FLR FD FDTN GA GALV GEN GR GYP HDW	ELECTRICAL ELECTRICAL ELEVATION EMBEDMENT ENGINEER EQUAL EQUIPMENT EXISTING EXPANSION EXPANSION JOINT EXTERIOR FEET FIBER REINFORCED PLASTIC FINISH FLOOR FIRE EXTINGUISHER FIXTURE FLOOR FLOOR DRAIN FOUNDATION GAUGE GALVANIZED GENERAL GRADE GYPSUM HARDWARE
ELEC EL EMBED ENGR EQ EQUIP EX EXP EJ EXT FT FRP FIN FLR FE FIXT FLR FD FDTN GA GALV GEN GR GYP HDW HVAC	ELECTRICAL ELECTRICAL ELEVATION EMBEDMENT ENGINEER EQUAL EQUIPMENT EXISTING EXPANSION EXPANSION JOINT EXTERIOR FEET FIBER REINFORCED PLASTIC FINISH FLOOR FIRE EXTINGUISHER FIXTURE FLOOR FLOOR DRAIN FOUNDATION GAUGE GALVANIZED GENERAL GRADE GYPSUM HARDWARE HEATING, VENTILATION
ELEC EL EMBED ENGR EQ EQUIP EX EXP EJ EXT FT FRP FIN FLR FD FDTN GA GALV GEN GR GYP HDW HVAC	ELECTRICAL ELECTRICAL ELEVATION EMBEDMENT ENGINEER EQUAL EQUIPMENT EXISTING EXPANSION EXPANSION JOINT EXTERIOR FEET FIBER REINFORCED PLASTIC FINISH FLOOR FIRE EXTINGUISHER FIXTURE FLOOR FLOOR DRAIN FOUNDATION GAUGE GALVANIZED GENERAL GRADE GYPSUM HARDWARE HEATING, VENTILATION AND AIR CONDITIONING HEIGHT
ELEC EL EMBED ENGR EQ EQUIP EX EXP EJ EXT FT FRP FIN FLR FD FDTN GA GALV GEN GR GR GYP HDW HVAC HT HPT	ELECTRICAL ELECTRICAL ELEVATION EMBEDMENT ENGINEER EQUAL EQUIPMENT EXISTING EXPANSION JOINT EXTRAIOR FEET FIBER REINFORCED PLASTIC FINISH FLOOR FIRE EXTINGUISHER FIXTURE FLOOR FLOOR DRAIN FOUNDATION GAUGE GALVANIZED GENERAL GRADE GYPSUM HARDWARE HEATING, VENTILATION AND AIR CONDITIONING HEIGHT HIGH POINT
ELEC EL EMBED ENGR EQ EQUIP EX EXP EJ EXT FT FRP FIN FLR FD FDTN GA GALV GEN GR GYP HDW HVAC HT HPT HM HORIZ	ELECTRICAL ELECTRICAL ELEVATION EMBEDMENT ENGINEER EQUAL EQUIPMENT EXISTING EXPANSION EXPANSION JOINT EXTERIOR FEET FIBER REINFORCED PLASTIC FINISH FLOOR FIRE EXTINGUISHER FIXTURE FLOOR FLOOR DRAIN FOUNDATION GAUGE GALVANIZED GENERAL GRADE GYPSUM HARDWARE HEATING, VENTILATION AND AIR CONDITIONING HEIGHT HIGH POINT HOLLOW METAL HORIZONTAI
ELEC EL EMBED ENGR EQ EQUIP EX EXP EJ EXT FT FRP FIN FLR FD FDTN GA GALV GEN GR GYP HDW HVAC HT HPT HM HORIZ INFO	ELECTRICAL ELECTRICAL ELEVATION EMBEDMENT ENGINEER EQUAL EQUIPMENT EXISTING EXPANSION EXPANSION JOINT EXTERIOR FEET FIBER REINFORCED PLASTIC FINISH FLOOR FIRE EXTINGUISHER FIXTURE FLOOR FLOOR DRAIN FOUNDATION GAUGE GALVANIZED GENERAL GRADE GYPSUM HARDWARE HEATING, VENTILATION AND AIR CONDITIONING HEIGHT HIGH POINT HOLLOW METAL HORIZONTAL INFORMATION
ELEC EL EMBED ENGR EQ EQUIP EX EXP EJ EXT FT FRP FIN FLR FD FDTN GA GALV GEN GR GYP HDW HVAC HT HPT HM HORIZ INFO IN	ELECTRICAL ELECTRICAL ELEVATION EMBEDMENT ENGINEER EQUAL EQUIPMENT EXISTING EXPANSION EXPANSION JOINT EXTERIOR FEET FIBER REINFORCED PLASTIC FINISH FLOOR FIRE EXTINGUISHER FIXTURE FLOOR FLOOR DRAIN FOUNDATION GAUGE GALVANIZED GENERAL GRADE GYPSUM HARDWARE HEATING, VENTILATION AND AIR CONDITIONING HEIGHT HIGH POINT HOLLOW METAL HORIZONTAL INFORMATION INCH
ELEC EL EMBED ENGR EQ EQUIP EX EXP EJ EXT FT FRP FIN FLR FD FDTN GA GALV GEN GR GYP HDW HVAC HT HPT HM HORIZ INFO IN ID INSUL	ELECTRICAL ELECTRICAL ELEVATION EMBEDMENT ENGINEER EQUAL EQUIPMENT EXISTING EXPANSION EXPANSION JOINT EXTERIOR FEET FIBER REINFORCED PLASTIC FINISH FLOOR FIRE EXTINGUISHER FIXTURE FLOOR FLOOR DRAIN FOUNDATION GAUGE GALVANIZED GENERAL GRADE GYPSUM HARDWARE HEATING, VENTILATION AND AIR CONDITIONING HEIGHT HIGH POINT HOLLOW METAL HORIZONTAL INFORMATION INCH INSIDE DIMENSION INSULATION
ELEC EL EMBED ENGR EQ EQUIP EX EXP EJ EXT FT FRP FIN FLR FD FDTN GA GALV GEN GR GYP HDW HVAC HT HPT HM HORIZ INFO IN ID INSUL INT	ELECTRICAL ELECTRICAL ELEVATION EMBEDMENT ENGINEER EQUAL EQUIPMENT EXISTING EXPANSION EXPANSION JOINT EXTERIOR FEET FIBER REINFORCED PLASTIC FINISH FLOOR FIRE EXTINGUISHER FIXTURE FLOOR FLOOR DRAIN FOUNDATION GAUGE GALVANIZED GENERAL GRADE GYPSUM HARDWARE HEATING, VENTILATION AND AIR CONDITIONING HEIGHT HIGH POINT HOLLOW METAL HORIZONTAL INFORMATION INCH INSIDE DIMENSION INSULATION INTERIOR
ELEC EL EMBED ENGR EQ EQUIP EX EXP EJ EXT FT FRP FIN FLR FD FDTN GA GALV GEN GR GYP HDW HVAC HT HPT HM HORIZ INFO IN ID INSUL INT JC	ELECTRICAL ELECTRICAL ELEVATION EMBEDMENT ENGINEER EQUAL EQUIPMENT EXISTING EXPANSION EXPANSION JOINT EXTERIOR FEET FIBER REINFORCED PLASTIC FINISH FLOOR FIRE EXTINGUISHER FIXTURE FLOOR FLOOR DRAIN FOUNDATION GAUGE GALVANIZED GENERAL GRADE GYPSUM HARDWARE HEATING, VENTILATION AND AIR CONDITIONING HEIGHT HIGH POINT HOLLOW METAL HORIZONTAL INFORMATION INCH INSIDE DIMENSION INSULATION INTERIOR JANITOR'S CLOSET JOINT
ELEC EL EMBED ENGR EQ EQUIP EX EXP EJ EXT FT FRP FIN FLR FD FDTN GA GALV GEN GR GYP HDW HVAC HT HPT HM HORIZ INFO IN ID INSUL INT JC JT LAB	ELECTRICAL ELECTRICAL ELEVATION EMBEDMENT ENGINEER EQUAL EQUIPMENT EXISTING EXPANSION JOINT EXTERIOR FEET FIBER REINFORCED PLASTIC FINISH FLOOR FIRE EXTINGUISHER FIXTURE FLOOR FLOOR DRAIN FOUNDATION GAUGE GALVANIZED GENERAL GRADE GYPSUM HARDWARE HEATING, VENTILATION AND AIR CONDITIONING HEIGHT HIGH POINT HOLLOW METAL HORIZONTAL INFORMATION INCH INSIDE DIMENSION INSULATION INTERIOR JANITOR'S CLOSET JOINT LABORATORY

2

### LEGEND OF SYMBOLS LEGEND OF HATCH PATTERNS

GENERAL FILL

GRATING

STEEL

BRICK

CMU

CONCRETE

GROUT

WOOD

TRENCH COVER

**RIGID INSULATION** 

WOOD FINISHED

4

A	STRUCTURAL COLUMN CENTERLINE WALL CENTERLINE IF NOT COLUMN
#	NUMBER
(#)	ACCESSORY, LAB FURNITURE & EQUIPMENT KEY
A-0X	BUILDING ELEVATION
1 A-0X	BUILDING SECTION
1 A-0X	WALL SECTION
1 A-0X	DETAIL CUT
¢	CENTERLINE
$\bigotimes$	DIAMETER
####	ROOM NUMBER
##	LOUVER NUMBER SYMBOL
¥#	DOOR NUMBER SYMBOL
	WALL PARTITION TYPE
→ A	WALL PARTITION TYPE
- ▲ → ◆	WALL PARTITION TYPE ELEVATION INDICATION EXISTING
→ A	WALL PARTITION TYPE ELEVATION INDICATION EXISTING DEMOLISHED
• • • • • • • • • • • • • • • • • • •	WALL PARTITION TYPE ELEVATION INDICATION EXISTING DEMOLISHED PROPOSED

Docs 3D-W

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GRAVEL GYPSUM BOARD GENERAL ARCHITECTL

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- 1. THE LEGEND AND ABBREVIATIONS LIST ON STANDARD GUIDE INTENDED FOR GENERAL PROJECTS. THEREFORE NOT ALL THE SYMB CONTAINED IN THIS LIST ARE NECESSARILY PROJECT AND SHOULD BE USED FOR CLAR 2. ITEMS NOT NOTED ON SHEETS SHALL BE CO
- ITEMS WHICH ARE GRAPHICALLY REPRESEN 3. FOR CONCRETE AND STEEL SIZES AND CON
- 4. FOR LOCATION OF HVAC EQUIPMENT AND P SHEETS.
- 5 FOR FLOOR DRAIN LOCATIONS SEE 'P' SHEE 6. FOR FINAL GRADING AND BUILDING LOCATIO
- 7. FOR EXACT LOCATION OF MECHANICAL EQU WITH 'M' SHEETS.
- 8. COORDINATE WITH ELECTRICAL SHEETS FO RECESSED ELECTRICAL DEVICES IN WALLS. LOCATIONS AND DETAILS.
- 9. COORDINATE WITH ELECTRICAL SHEETS FO LOCATIONS.
- 10. \* (ASTERISK) MEANS VERIFY DIMENSION WIT EQUIPMENT SUPPLIED OR IN FIELD. FIELD VE DIMENSIONS AND CONDITIONS.

# CONSTRUCTION NOTES

- 1. ALL WORK SHALL BE INSTALLED IN ACCORDA CODE OF NEW YORK STATE, AND THE 2020 E NEW YORK.
- 2. CONSTRUCTION WORK SHALL BE PERFORM STATE AND LOCAL REGULATIONS AND CODE REGULATIONS.
- 3. ALL SAW CUTTING AND CORING SHALL BE BY
- UNLESS ADJACENT TO SENSITIVE EQUIPMEN
- 4. ALL DUST AND DEBRIS SHALL BE REMOVED BASIS.
- 5. INSTALL DOOR FRAMES AS SHOWN AND SPE PROGRESSES. DO NOT HANG DOORS AND IN UNTIL ALL WORK BY ALL CONTRACTORS HAS AREA AND THERE ARE NO FURTHER CONSTR REQUIRED ENTRY BY ANY CONTRACTOR. DO HARDWARE INSTALLED AND SUBSEQUENTLY ANY REASON SHALL BE IMMEDIATELY REPLA CONTRACTOR AT NO ADDITIONAL COST TO MEANS FROM THE TIME THE DAMAGE IS OBS THE GENERAL CONTRACTOR BY CONSTRUCT TIME OF REINSTALLATION SHALL NOT BE MO
- DOOR FRAMES SHALL BE BOXED OUT IN WOO CONSTRUCTION DAMAGE.
- 7. INSTALL TEMPORARY 3/4" PLYWOOD DOORS CONSTRUCTION ACCESS AND ACTIVITIES AR THE TIME WHEN DOORS AND FINISH HARDWA
- 8. PAINTING COORDINATE INSTALLATION OF F PERFORM WORK BEFORE INSTALLATION OF OTHER TRADES.

DEMOLISHED AREA (DEMOLITION PLANS ONLY)

	6		RCAD	IS
JRE NOTES		LEGAL ENTITY: ARCADIS OF NE	W YORK, INC.	
THIS SHEET IS A		CONSULTANTS		
USE ON ALL BOLS AND ABBREVIATIONS OUSED ON THIS PARTICULAR IFICATION ONLY. DNSIDERED THE SAME AS NOTED NTED IN THE SAME MANNER. IFIGURATIONS SEE 'S' SHEETS. PADS COORDINATE WITH 'H'				
ETS. ON SEE 'C' SHEETS. JIPMENT VENTS COORDINATE				
OR LOCATION AND SIZE OF . SEE ELECTRICAL SHEETS FOR		SEALS	CREDARC	
OR LIGHT FIXTURE TYPES AND		10	ANTONIO OTI IC	
TH MANUFACTURER OF ERIFY ALL EXISTING			OZ3835 VORT	6/2024
6		ORA	NGE COUNTY, NEW YORK	0/2024
ANCE WITH THE 2020 BUILDING EXISTING BUILDING CODE OF		CITY	OF NEWBURGH	
ED IN ACCORDANCE WITH AND OSHA 1926				
Y WETTING OF THE AREA NT. FROM WORK AREA ON DAILY		WAS	STEWATER	
ECIFIED AS THE WORK ISTALL FINISH HARDWARE S BEEN COMPLETED IN AN RUCTION ACTIVITIES OR OORS AND FINISHED Y DAMAGED IN ANY WAY FOR ACED BY THE GENERAL		TREAT (WW B RE	MENT PLAN VTP) ADMIN SUILDING NOVATION	Т
THE OWNER. IMMEDIATELY SERVED AND REPORTED TO TION MANAGEMENT TO THE ORE THAN ONE MONTH.		BID NUMBER 7.2 ARCADIS PROJ	24 . NO. 30183827	
AND LOCKS. REMOVE WHEN				
RE FINISHED IN AN AREA AT ARE ARE INSTALLED. PAINTING IN ORDER TO				
WORK PERFORMED UNDER				
		NO. DATE	ISSUED FOR	BY
		COPYRIGHT: AR 2014 ING	CADIS OF NEW YORK, C.	
		DATE:	SEPTEMBER 2024	
		PROJECT NO.: FILE NAME:	30183827	
		DESIGNED BY:	ED	
		DRAWN BY:	GF	
		CHECKED BY:	LA	
		AR	CHITECTURAL	
		ABBF LEGEN	REVIATIONS, ID AND NOTE	S
		SCALE:	12" = 1'-0"	
			A-01	
		SHEET	3 OF 51	_



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### CODE NOTES

 WORK SHALL BE GOVERNED BY THE STATE OF NEW YORK EXISTING BUILDING CODE AND BUILDING CODE.

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 EXISTING WALL PENETRATION SHALL BE RESEALED WITH 2-HOUR FIRE RESISTANCE RATED FIRE SEALANT.
 EXISTING WALL CONSTRUCTION AT RESTROOMS AND MECHINCAL ROOM : 8" CMU.
 EXISITNG WALL CONSTRUCTION AT LAB TO CHEMICAL STORAGE AREA AND LAB TO LOBBY.
 INFILL CONSTRUCTION ATLOBBY WINDOW SHALL BE UL DESIGN U419 - 2-HOUR FIRE RESISTANCE RATED.

## LIFE SAFETY SYMBOLS LEGEND:

	FIRE EXTINGUISHER, CO2
	FIRE EXTINGUISHER, MULTI- PURPOSE DRY CHEMICAL
	FIRE EXTINGUISHER, CO2 (IN CABINET)
	FIRE EXTINGUISHER, MULTI- PURPOSE DRY CHEMICAL (IN CABINET)
	EXIT SIGN LOCATION
	DIRECTION OF EGRESS PATH # IS DISTANCE IN FEET TO EXIT FROM SQUARE DOT TO ARROW
	I HR FIRE BARRIER
	2 HR FIRE BARRIER
	3 HR FIRE BARRIER
	4 HR FIRE BARRIER
-	30 MIN FIRE PARTITION
-	1 HR FIRE PARTITION
	SMOKE BARRIER (1 HR)
•	SMOKE PARTITION
-	1 HR FIREWALL
-	2 HR FIREWALL
-	3 HR FIREWALL
	4 HR FIREWALL
	SQUARE FEET
	OCCUPANT LOAD FACTOR
	OCCUPANT LOAD
	SPRINKLER
	OCCUPANT CLASSIFICATION
	NOT APPLICABLE
	DOOR RATING (IN MINUTES)

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LEGAL ENTITY: ARCADIS OF NEV	V YORK, INC.			
CONSULTANTS				
SEALS	DERED ARCHING ANTONIO OTALICO DE DE NEW TORT 9/6	/2024		
9/6/2024 ORANGE COUNTY, NEW YORK CITY OF NEWBURGH				
WASTEWATER TREATMENT PLANT (WWTP) ADMIN BUILDING RENOVATION				
	NU. 30103021			
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		ARCADIS
	SHEET NOTES NOTES:	LEGAL ENTITY: ARCADIS OF NEW YORK, INC.
	<ol> <li>PROPOSED CORING LOCATIONS AND QUANTITY OF CORES ARE SHOWN AS APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION OF UNDERGROUND DUCT WORK AND QUANTITY OF CORES REQUIRED TO FILL DUCT WORK WITH GROUT.</li> <li>EXISTING GRADE BEAM AND PILE CAP LOCATIONS ARE SHOWN AS APPROXIMATE. CONTRACTOR SHALL AVOID CORING AT THESE LOCATIONS.</li> <li>CONTRACTOR SHALL SUBMIT FOR REVIEW METHOD FOR FILLING AND MONITORING GROUT PLACEMENT.</li> <li>BRICK REPLACEMENT AREA: 50 SQUARE FEET IN TOTAL.</li> <li>BRICK MORTAR REPOINTING: PROVIDE REPOINTING IS SELECT AREA OF FACADE, ALLOW FOR 300 SF OF BRICK AREA MORTAR REPOINTING.</li> </ol>	CONSULTANTS
	H I	SEALS
		ORANGE COUNTY, NEW YORK CITY OF NEWBURGH
		WASTEWATER TREATMENT PLANT (WWTP) ADMIN BUILDING RENOVATION
	10" DIA	BID NUMBER 7.24 ARCADIS PROJ. NO. 30183827
	FILL DUCT WITH GROUT, TYP	NO. DATE ISSUED FOR BY
~ 	-14" DIA	COPYRIGHT: ARCADIS OF NEW YORK, 2014 INC.
		DATE: SEPTEMBER 2024 PROJECT NO.: 30183827
		FILE NAME:       DESIGNED BY:       ED       DRAWN BY:       GF       CHECKED BY:
	-7" DIA	SHEET TITLE ARCHITECTURAL
		DEMOLITION ELEVATIONS
	5" DIA	
	TRUE NORTH	SCALE: As indicated
4'	8' 12'	A-04
		SHEET <u>6</u> OF <u>51</u>



6	ARCADIS
<b>SHEET NOTES</b> 1. PATCH EXISTING CMU WALL TO REMAIN AND	LEGAL ENTITY: ARCADIS OF NEW YORK, INC.
MAINTAIN SCORE PATTERN. PREPARE CMU WALL FOR PAINT WHERE EXPOSED. 2. NEW CMU WALLS SHALL BE TOOTH INTO	CONSULTANTS
3. REFERENCE PAINT MANUFACTURER'S INSTRUCTIONS AND SURFACE PREPARE FOR NEW	
EPOXY FLOORING.	
	SEALS
	GISTERED ARCHING
DA ROOM	
107A	OF NEW YOR
	9/6/2024 ORANGE COUNTY, NEW
	CITY OF NEWBURGH
	WASTEWATER
	TREATMENT PLANT (WWTP) ADMIN
WALLS,	BUILDING
J AND FLOOR	RENOVATION
XTERIOR WITH RED GLASS	BID NUMBER 7.24
ONCRETE CURB RETE PAD, 1/4"	ARCADIS PROJ. NO. 30183827
/ FIRST FLOOR % SLOPE NORTH FF_	
$\mathbf{r}$	
51	
	NO. DATE ISSUED FOR BY
RE GRASS AREA, TYP	COPYRIGHT: ARCADIS OF NEW YORK, 2014 INC.
RETE RAMP TO ROADWAY , VERIFY ROADWAY ELEVATION (MAX GRADE	DATE: SEPTEMBER 2024
E 14")	PROJECT NO.: 30183827
NUM HANDRAIL, IED IN CONC WITH	DESIGNED BY: ED
M, TYP CE ASPHALT CURB,	DRAWN BY: GF CHECKED BY: LA
_ANDING, TYP	SHEET TITLE
	ARCHITECTURAL
	FIRST FLOOR PLAN
	SCALE: 1/4" = 1'-0"
	A-10
	SHEET 7 OF 51



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LEGAL ENTITY: ARCADIS OF NE	W YORK, INC.		
CONSULTANTS			
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E	S ANTONIO OTREC		
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ORA	NGE COUNTY, NEW YORK		
CITY	OF NEWBURGH		
WA	STEWATER		
	TMENT PLANT		
E E	BUILDING		
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BID NUMBER 7.	24		
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SHEET NOTES

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1. ABDC



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### SHEET NOTES

1. CONCRETE JOINT BETWEEN SINGLE TEES SHALL BE SEALED WITH JOINT SEALANT.

6

- EXPOSED ELECTRICAL CONDUITS AND ELECTRICAL ACCESSORIES AT CIELING SHALL BE PAINTED. COLOR TO MATCH CEILING AT 8 FEET AND ABOVE.
- EXPOSED PIPING, SUPPORTS AND ACCESSORIES AT CEILING SHALL BE PAINTED. COLOR TO MATCH CEILING AT 8 FEET AND ABOVE.

LEGAL ENTITY: ARCADIS OF NEW YORK, INC.

ARCADIS

CONSULTANTS

SEALS



ORANGE COUNTY, NEW YORK CITY OF NEWBURGH

### WASTEWATER TREATMENT PLANT (WWTP) ADMIN BUILDING RENOVATION

BID NUMBER 7.24

ARCADIS PROJ. NO. 30183827

CEILING LEGEND



2 x 2 ACOUSTICAL TILE CEILING

4' LIGHT FIXTURE PENDENT MTD (CLG MTD AT ACT)

4' LIGHT FIXTURE WALL MTD



⊗‡

SUPPLY AIR

EXIT LIGHT

GYPSUM BOARD CEILING OR SOFFIT

NO.	DATE	ISSUED FOR	BY
	-	•	-

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DATE:	SEPTEMBER 2024
PROJECT NO .:	30183827
FILE NAME:	
DESIGNED BY:	ED
DRAWN BY:	GF
CHECKED BY:	LA
SHEET TITLE	

ARCHITECTURAL

<b>REFLECTED CEILING</b>
PLAN

SCALE:

As indicated

A-12

SHEET 9 OF 51



SPECIALTY EQUIPMENT SCHEDULE NOTES 1. ITEM SHALL BE SUPPLIED BY LAB CASEWORK SUPPLIER.

BATHROOM

2. ITEM SHALL BE COORDINATED WITH ELECTRICAL AND HVAC REQUIREMENTS.

105A

SP	ECIALTY EQUIPMENT SCHEDULE	
PE MARK	DESCRIPTION	COMMENTS
SE-A	Fridge-UnderCounter: 30" x 24" x 30" 2	
CA-1	Drying Pegboard: 30" x 36"	SEE NOTE 1
CA-2	Hood-CounterBased: 60" x 36"	SEE NOTE 1 AND 2
SE-B	Grab Bar: Grab Bar	
SE-C	Sanitary_Mirrors_Roca_LUNA-Mirror: LUNA Mirror	
SE-D	hewi_paper_towel_dispenser_477_06_60005: Colour - (50_HEWI steel blue)	
SE-E	Sanitary_Sanitary-Accessories_HEWI_HEWI-Soap-dispenser-900-06-00460: Colour - DX Matt white	
SE-G	Newburgh - Lockers: 1 Tier 15 x 24 x 72	
SE-G	Newburgh - Lockers: 1 Tier 15 x 24 x 72	
SE-G	Newburgh - Lockers: 1 Tier 15 x 24 x 72	
SE-G	Newburgh - Lockers: 1 Tier 15 x 24 x 72	
SE-G	Newburgh - Lockers: 1 Tier 15 x 24 x 72	
SE-G	Newburgh - Lockers: 1 Tier 15 x 24 x 72	
SE-B	Grab Bar: Grab Bar	
SE-C	Sanitary_Mirrors_Roca_LUNA-Mirror: LUNA Mirror	
SE-F	Grab-Bar_Bobrick_B-6806: 18W Standard - thin	
SE-F	Grab-Bar_Bobrick_B-6806: 18W Standard - thin	
SE-D	hewi_paper_towel_dispenser_477_06_60005: Colour - (50_HEWI steel blue)	
SE-E	Sanitary_Sanitary-Accessories_HEWI_HEWI-Soap-dispenser-900-06-00460: Colour - DX Matt white	

FURNITURE SCHEDULE						
ROOM NAME	ROOM NUMBER	TYPE MARK	FREE STANDNG FURNITURE DESCRIPTION	COMMENTS		
WORK AREA	101A	FF-12	Chair-Task Arms: Chair-Task Arms			
WORK AREA	101A	FF-12	Chair-Task Arms: Chair-Task Arms			
OFFICE A	104	FF-1	Desk: 60" x 30"			
OFFICE A	104	FF-1	Desk: 60" x 30"			
OFFICE A	104	FF-1	Desk: 60" x 30"			
OFFICE A	104	FF-2	Cabinet File-Lateral 3 Drawer: 24" x 18" x 36"			
OFFICE A	104	FF-2	Cabinet File-Lateral 3 Drawer: 24" x 18" x 36"			
OFFICE A	104	FF-2	Cabinet File-Lateral 3 Drawer: 24" x 18" x 36"			
OFFICE A	104	FF-3	Shelving: 36" x 12" x 72"			
OFFICE A	104	FF-12	Chair-Task Arms: Chair-Task Arms			
OFFICE A	104	FF-12	Chair-Task Arms: Chair-Task Arms			
OFFICE A	104	FF-12	Chair-Task Arms: Chair-Task Arms			
LOCKER RM	105	FF-9	Newburgh_bench: Newburgh_bench	SEE NOTE 1		
OFFICE B	106	FF-1	Desk: 60" x 30"			
OFFICE B	106	FF-3	Shelving: 36" x 12" x 72"			
OFFICE B	106	FF-3	Shelving: 36" x 12" x 72"			
OFFICE B	106	FF-4	Cabinet File-Lateral 3 Drawer: 36" x 20" x 36"			
OFFICE B	106	FF-4	Cabinet File-Lateral 3 Drawer: 36" x 20" x 36"			
OFFICE B	106	FF-5	Cabinet-Storage: 36" x 18" x 72"			
OFFICE B	106	FF-8	Credenza: 72" x 24"			
OFFICE B	106	FF-11	Chair-Task: Chair-Task			
OFFICE B	106	FF-11	Chair-Task: Chair-Task			
OFFICE B	106	FF-12	Chair-Task Arms: Chair-Task Arms			
CONFERENCE ROOM	107	F3	Table-Conference2 w Chairs: 40" x 90"			
CONFERENCE ROOM	107	FF-4	Cabinet File-Lateral 3 Drawer: 36" x 20" x 36"			
CONFERENCE ROOM	107	FF-4	Cabinet File-Lateral 3 Drawer: 36" x 20" x 36"			
CONFERENCE ROOM	107	FF-4	Cabinet File-Lateral 3 Drawer: 36" x 20" x 36"			
CONFERENCE ROOM	107	FF-5	Sideboard: 48" x 20" x 38"			
CONFERENCE ROOM	107	FF-11	Chair-Task: Chair-Task			
CONFERENCE ROOM	107	FF-11	Chair-Task: Chair-Task			
CONFERENCE ROOM	107	FF-11	Chair-Task: Chair-Task			
CONFERENCE ROOM	107	FF-11	Chair-Task: Chair-Task			
CONFERENCE ROOM	107	FF-11	Chair-Task: Chair-Task			
CONFERENCE ROOM	107	FF-11	Chair-Task: Chair-Task			
CONFERENCE ROOM	107	FF-12	Chair-Task Arms: Chair-Task Arms			
CONFERENCE ROOM	107	FF-12	Chair-Task Arms: Chair-Task Arms			
SCADA ROOM	107A	FF-6	Cupboard: Cupboard			

### FURNITURE SCHEDULE NOTES

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1. FURNITURE ITEMS LISTED IN THE FURNITURE SCHEDULE SHALL BE PURCHASED THROUGH THE NYS OGS GROUP 20915 CONTRACT OR CURRENT CONTINUATION OF THE CONTRACT. REFERENCE SPECIFICATION SECTION 12 50 00 FURNITURE FOR BASIS OF DESIGN OF EACH PIECE OF FURNITURE.

2. BENCH IS NOT PART OF NYS OGS GROUP 20915 CONTRACT AND SHALL BE SUPPLIED BY LOCKER MANUFACTURER.

	CASEWORK SCHEDULE							
ROOM NAME	ROOM NUMBER	TYPE	CASEWORK DESCRIPTION	MATERIAL	WIDTH	DEPTH	HEIGHT	COMMENTS
HALL	101B	CB-11	Base Cabinet-Single Door & Drawer: 22"	PAINTED METAL	1' - 11"	2' - 0"	2' - 10 1/2"	
HALL	101B	CB-12	Base Cabinet-Double Door Sink Unit: 36"	PAINTED METAL	3' - 0"	2' - 0"	2' - 10 1/2"	
HALL	101B	CB-FB	Counter Top: 24" Depth	SST		2' - 1"	3' - 0"	
HALL	101B	CU-1	Upper Cabinet-Double Door-Wall: 1'-11" x 1'-1"	PAINTED METAL	1' - 11"	1' - 0"	1' - 1"	
HALL	101B	CU-1A	Upper Cabinet-microwave: 1'-11" x 1'-1"	PAINTED METAL	1' - 11"	1' - 0"	1' - 1"	
HALL	101B	CU-4	Upper Cabinet-Double Door-Wall: 36" x 26"	PAINTED METAL	3' - 0"	1' - 0"	2' - 2"	
LAB	102	CB-1	Base Cabinet-Combo01: 2'-0" x 1'-10"	PAINTED METAL	2' - 0"	1' - 10"	2' - 11 1/8"	
LAB	102	CB-2	Base Cabinet-Single Door & Drawer: 2'-0" x 1'-10" H 36"	PAINTED METAL	2' - 0"	1' - 10"	2' - 11 1/8"	
LAB	102	CB-2	Base Cabinet-Single Door & Drawer: 2'-0" x 1'-10" H 36"	PAINTED METAL	2' - 0"	1' - 10"	2' - 11 1/8"	
LAB	102	CB-3	Base Cabinet-Double Door Sink Unit: 36" H 36" CB3	PAINTED METAL	3' - 0"	1' - 9"	2' - 11 1/8"	
LAB	102	CB-4	Base Cabinet-Double Door Sink Unit: 36" H 36" st	PAINTED METAL	3' - 0"	1' - 9"	2' - 11 1/8"	
LAB	102	CB-6	Base Cabinet-Single Door & Drawer: 18" st CB6	PAINTED METAL	1' - 3"	1' - 9"	2' - 11 1/8"	
LAB	102	CB-7	Base Cabinet-Double Door Sink Unit: 36" H 36" st CB7	PAINTED METAL	3' - 0"	1' - 9"	2' - 11 1/8"	
LAB	102	CB-8	Base Cabinet-Single Door & Drawer: 18" st	PAINTED METAL	1' - 6"	1' - 10"	2' - 11 1/8"	
LAB	102	CB-9	Base Cabinet-Single Door & Drawer: 2'-0" x 1'-10" H 36" CB9	PAINTED METAL	2' - 0"	1' - 10"	2' - 11 1/8"	
LAB	102	CB-9	Counter Top: 30" Depth	SST		2' - 6"	3' - 0"	
LAB	102	CB-9	Counter Top: 30" Depth	SST		2' - 6"	3' - 0"	
LAB	102	CB-10	Base Cabinet-Double Door Sink Unit: 30" H 36"	PAINTED METAL	2' - 6"	1' - 10"	2' - 11 1/8"	
LAB	102	CB-10	Base Cabinet-Double Door Sink Unit: 30" H 36"	PAINTED METAL	2' - 6"	1' - 10"	2' - 11 1/8"	
LAB	102	CB-FC	Base Cabinet-Corner Unit: 33"	PAINTED METAI	2' - 8"	2' - 8"	2' - 11 1/8"	
LAB	102	CB-FH	Filler panel: Filler panel horiz	PAINTED METAL	1' - 10"	2 0	0' - 2"	
LAB	102	CB-FS	Filler panel: Filler panel	PAINTED METAL	0' - 3"		0' - 3 1/2"	
LAB	102	CB-FS	Filler panel: Filler panel	PAINTED METAI	1' - 8"		2' - 11 1/8"	
LAB	102	CB-FS	Filler panel: Filler panel	PAINTED METAL	0' - 3"		2' - 7 5/8"	
	102	CB-FS	Filler panel: Filler panel	PAINTED METAL	3' - 8"		2' - 11 1/8"	
	102	CB-FS	Filler panel: Filler panel	PAINTED METAL	1' - 10"		2' - 11 1/8"	
LAB	102	CB-FS	Filler nanel: Filler nanel		1' - 10 5/8"		2' - 11 1/8"	
LAB	102	CB-FS	Filler panel: Filler panel	PAINTED METAL	0' - 5 3/4"		2' - 7 5/8"	
LAB	102	CB-FS	Filler panel: Filler panel	PAINTED METAL	0' - 8"		2' - 7 5/8"	
LAB	102	CB-FS	Filler panel: Filler panel	PAINTED METAL	0' - 8 3/4"		0' - 3 1/2"	
LAB	102	CB-FS	Filler panel: Filler panel	PAINTED METAL	0' - 11"		0' - 3 1/2"	
LAB	102	CB-FS	Filler nanel: Filler nanel		0' - 1 3/4"		2' - 7 5/8"	
	102	CB-FS	Filler panel: Filler panel	PAINTED METAL	0' - 1 3/4"		0' - 3 1/2"	
	102	CT-2	Counter Ton-L Shaned w Sink Hole 2: 30" Denth	SST	0 10/4	2' - 6"	3' - 0"	
LAB	102	CT-F1	Counterton edge rf: Counterton edge rf	SST	2' - 5 1/4"	2' - 0"	3' - 0"	
LAB	102	CU-2	Upper Cabinet-Double Door-Wall: 24"	PAINTED METAI	1' - 9"	1' - 0"	2' - 6 5/8"	
LAB	102	CU-2	Upper Cabinet-Double Door-Wall: 24"		1' - 9"	1' - 0"	2' - 6 5/8"	
	102	CU-3	Upper Cabinet-Double Door-Wall: 30"		2' - 6"	1' - 0"	2' - 6 5/8"	
LAR	102	CU-3	Upper Cabinet-Double Door-Wall: 30"		2' - 6"	1' - 0"	2' - 6 5/8"	
LAR	102	CU-3	Upper Cabinet-Double Door-Wall: 30"		2'-6"	1' - 0"	2' - 6 5/8"	
	102	CI1-3	Unner Cabinet-Double Door-Wall: 30"		2'-6"	1' - 0"	2 - 6 5/8"	
LAD	102	00-3	Opper Ganinet-Double Dool-Wall. 30		2-0	1-0	2 - 0 5/0	

### CASEWORK SCHEDULE NOTES

1. REFERENCE SPECIFICATION SECTION 12 35 53 LABORATORY CASEWORK FOR CASEWORK DETAILS AND REQUIREMENTS.

- 2. REFERENCE SPECIFICATION SECTION 11 53 00 LABORATORY EQUIPMENT DETAILS AND REQUIREMENTS.
- PROVIDE LABORATORY EQUIPMENT LISTED ON SHEET A-14. COORDINATE LOCATION ON PLACEMENT WITH OWNER. COORDINATE UTILITIES WITH H, E, AND P SHEETS.

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LEG ARC	AL ENTITY: ADIS OF NE\	W YORK, INC.	
CON	SULTANTS		
SEAI	LS	DERED ARCHURCH NTONIO OTALICO OCCUPANTO OCCUPA	/2024
	ORAN	NGE COUNTY, NEW YORK OF NEWBURGH	
BID	WAS TREAT (WW B REI	STEWATER MENT PLANT /TP) ADMIN UILDING NOVATION	-
ARC	ADIS PROJ.	NO. 30183827	
NO.	DATE	ISSUED FOR	BY
COPY 2014	'right: Ar inc	CADIS OF NEW YORK, C.	
DATE: PROJI FILE N DESIG DRAW CHEC	: ECT NO.: NAME: GNED BY: /N BY: KED BY:	SEPTEMBER 2024           30183827           ED           GF           LA	
SHE	et title ARC	CHITECTURAL	
	FURN	IITURE PLAN	
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SHEET 11 OF 51

											LEGAL ENTITY: ARCADIS OF NEW YORK, INC.
	33 1/8" 2"		<u>TOP OF BRICK</u> 8.00' <u>FE (15.9 NAVD)</u> 4.75' FINISH FLOOR (11.00 NAVD) 0.00'				SINGLE TE PEG BOAR TOF UPPEF SST C C DFE ( BASE S PEG BOAR TOF UPPEF SST C DFE ( FIN (1	ES, PAINT D POF_BRICK 8.00 CABINET OUNTER TOP (15.9_NAVD) 4.75 CABINET ISH FLOOF 1.00_NAVD) 0.00			CONSULTANTS
	1 A-10	LAB SCALE: 1/4" = 1'-0" 0'2'	4'8	3	2 LAB A-10 SCALE: 1/4" = 1'-0"	0'2'4'	8'				SEALS
ZER IN INET			<u>TOP OF BRICK</u> 8.00'	- - -			UPPER CAB				YORK CITY OF NEWBURGH
	84" 36 3/8" 17" 30 5/8"		FE (15.9 NAVD) 4.75' FINISH FLOOR (11.00 NAVD) 0.00'	36 3/8" 17" 30 5/8"			DFE (15.9 N BASE CABIN FINISH FL (11.00 N	AVD) 4.75' NET .OOR AVD) 0.00'			WASTEWATER TREATMENT PLA (WWTP) ADMIN BUILDING RENOVATION
S LINE TOR	84" 36 3/8" 71 36 3/8"	LAB SCALE: 1/4" = 1'-0"	<u>FE (15.9 NAVD)</u> 4.75' FINISH FLOOR (11.00 NAVD) 0.00'	36 3/8"	4 A-10 SCALE: 1/4" = 1'-0"	2'4'	DFE (15.9 N BASE CABIN FINISH FL (11.00 N	AVD) 4.75' NET .OOR AVD) 0.00'			BID NUMBER 7.24 ARCADIS PROJ. NO. 30183827
S LINE TOR	84" 36 3/8" 17" 30 5/8"	Image: second	FE (15.9 NAVD) 4.75' FINISH FLOOR (11.00 NAVD) 0.00'		4       LAB         A-10       SCALE: 1/4" = 1'-0"         O       O		DFE (15.9 N BASE CABIN FINISH FL 	AVD) 4.75' JET OOR <u>AVD)</u> 0.00'			BID NUMBER 7.24 ARCADIS PROJ. NO. 30183827
S LINE TOR	ITEM	DESCRIPTION	FE (15.9 NAVD) 4.75' FINISH FLOOR (11.00 NAVD) 0.00'		4   4   A-10   SCALE: 1/4" = 1'-0"     O     EDULE     COMMENT     POWER	_2'4'	DFE (15.9 N BASE CABIN FINISH FL (11.00 N 8'	AVD) 4.75' NET OOR AVD) 0.00' 0.00'	AIR	SINK	WASTEWATER         TREATMENT PLA         (WWTP) ADMIN         BUILDING         BUILDING         RENOVATION
S LINE FOR	ITEM Lab Fridge	Image: second control of the second	FE (15.9 NAVD) 4.75' FINISH FLOOR (11.00 NAVD) 0.00' 4' 8 4' 8 	EQUIPMENT SCHE	4       LAB         A-10       SCALE: 1/4" = 1'-0"         0'         EDULE         COMMENT       POWER         115 V AC/60 Hz         115 VAC 50/60 Hz	2'4'	DFE (15.9 N BASE CABIN FINISH FL 	AVD) 4.75' JET OOR AVD) 0.00' 0.00' AVD 0.00'	AIR	SINK	BID NUMBER 7.24 ARCADIS PROJ. NO. 30183827
S LINE FOR	ITEM Lab Fridge Oven	DESCRIPTION         Accucold Under counter - NIST certified         sample preservation         QL Gravity convection oven 1.27 ft3         solids testing         Yamato 3.7 liter 110v	FE (15.9 NAVD) 4.75' FINISH FLOOR (11.00 NAVD) 0.00' 4' 8 PART/UPC # ACR45L 68771 FO200cr	EQUIPMENT SCHE VENDOR Katom USA Bluebook The Lab Depot	4       LAB         A-10       SCALE: 1/4" = 1'-0"         0'         EDULE         COMMENT       POWER         115 V AC/60 Hz         115 VAC,50/60 Hz         AC 115V. 50/60 Hz	2'4'	DFE (15.9 N BASE CABIN FINISH FL (11.00 N 8'	AVD) 4.75' NET OOR AVD) 0.00' • • • • • • • • • • • • •	AIR	SINK	WASTEWATER         TREATMENT PLA         (WWTP) ADMIN         BUILDING         BUILDING         RENOVATION         BID NUMBER 7.24         ARCADIS PROJ. NO. 30183827         DI         NO.         DATE         ISSUED FOR         COPYRIGHT:         ARCADIS OF NEW YOR         2014
S LINE FOR	ITEM Lab Fridge Oven Muffle furnace	DESCRIPTION         Accucold Under counter - NIST certified         sample preservation         QL Gravity convection oven 1.27 ft3         solids testing         Yamato 3.7 liter 110v         MLVSS testing         Files American Emotion         Files American Emotion	FE (15.9 NAVD) 4.75' FINISH FLOOR (11.00 NAVD) 0.00' 4' 8 4' 8 PART/UPC # ACR45L 68771 FO200cr FO200cr	EQUIPMENT SCHE VENDOR Katom USA Bluebook The Lab Depot National Laboratory Sales	4       LAB         A-10       SCALE: 1/4" = 1'-0"         0       0         EDULE       COMMENT       POWER         115 V AC/60 Hz       115 V AC/60 Hz         115 V AC/60 Hz       115 V AC/60 Hz         4       AC 115V, 50/60 Hz	2'4'	DFE (15.9 N BASE CABIN FINISH FL (11.00 N 8'	AVD) 4.75' JET OOR AVD) 0.00' 0.00' VACUUM	AIR	SINK	WASTEWATER         TREATMENT PLA         (WWTP) ADMIN         BUILDING         BUILDING         RENOVATION         BID NUMBER 7.24         ARCADIS PROJ. NO.         30183827         MO.         DATE         INO.         DATE:         SEPTEMBER 2024
	ITEM Lab Fridge Oven Muffle furnace Hood	Image: second system       Image: second system         Image: second	FE (15.9 NAVD) 4.75' FINISH FLOOR (11.00 NAVD) 0.00' 4' 8 4' 8 ACR45L 68771 FO200cr FO200cr NLS-403	EQUIPMENT SCHE VENDOR Katom USA Bluebook The Lab Depot National Laboratory Sales Fisher American	4       LAB         A-10       SCALE: 1/4" = 1'-0"         0'       0'         EDULE       COMMENT       POWER         115 V AC/60 Hz       115 V AC/60 Hz         115 V AC/50/60 Hz       AC 115V, 50/60 Hz         4' - 0" Wide       400 0000000000000000000000000000000000	2'4'	DFE (15.9 N BASE CABIN FINISH FL (11.00 N 8'	AVD) 4.75' JET OOR AVD) 0.00' 0.00' VACUUM Yes	AIR	SINK	WASTEWATER         TREATMENT PLA         (WWTP) ADMIN         BUILDING         BID NUMBER 7.24         ARCADIS PROJ. NO.         30183827             NO.         DATE         INO.         DATE:         SEPTEMBER 2024         PROJECT NO.:         30183827
S LINE TOR	ITEM Lab Fridge Oven Muffle furnace Hood pH meter	DESCRIPTION         Accucold Under counter - NIST certified         sample preservation         QL Gravity convection oven 1.27 ft3         solids testing         Yamato 3.7 liter 110v         MLVSS testing         5' Fisher American Fume Hood         Hach Benchtop sensION+         required testing	FE (15.9 NAVD)         4.75'         FINISH FLOOR         (11.00 NAVD)         0.00'         4'         4'         4'         8         ACR45L         68771         FO200cr         NLS-403         41259	EQUIPMENT SCHE VENDOR Katom USA Bluebook The Lab Depot National Laboratory Sales Fisher American USA bluebook	4       LAB         A-10       SCALE: 1/4" = 1'-0"         0       0         EDULE       COMMENT       POWER         115 V AC/60 Hz       115 V AC/60 Hz         115 V AC/50/60 Hz       AC 115V, 50/60 Hz         4' - 0" Wide       100-240 V, 47-63 Hz	2'4'	DFE (15.9 N BASE CABIN FINISH FL (11.00 N 8'	AVD) 4.75' JET OOR AVD) 0.00' VACUUM Yes	AIR	SINK	WASTEWATER         TREATMENT PLA         (WWTP) ADMIN         BUILDING         BUILDING         RENOVATION         BID NUMBER 7.24         ARCADIS PROJ. NO.         30183827         NO.         DATE         INO.         DATE:         SEPTEMBER 2024         PROJECT NO:         30183827         FILE NAME:         DESIGNED BY:
S LINE TOR	ITEM Lab Fridge Oven Muffle furnace Hood pH meter Lab testing-multi	Description         Description         Accucold Under counter - NIST certified         sample preservation         QL Gravity convection oven 1.27 ft3         solids testing         Yamato 3.7 liter 110v         MLVSS testing         5' Fisher American Fume Hood         Hach Benchtop sensION+         required testing         Hach DR3900         (2x) DWK Life Science Kimax 1 L	FE       (15.9 NAVD)         4.75'         FINISH FLOOR         (11.00 NAVD)         0.00'         4'         4'         ACR45L         68771         FO200cr         NLS-403         41259         LPV440.99.00012         4452	EQUIPMENT SCHE VENDOR Katom USA Bluebook The Lab Depot National Laboratory Sales Fisher American USA bluebook	4       LAB         A-10       SCALE: 1/4" = 1'-0"         Y       0'         EDULE       COMMENT       POWER         115       VAC/60 Hz       115 VAC/50/60 Hz         4' - 0" Wide       100-240 V, 47-63 Hz         110-240 V, 50-60 Hz       110-240 V, 50-60 Hz	2'4'	DFE (15.9 N BASE CABIN FINISH FL (11.00 N 8' 8'	AVD) 4.75' JET OOR AVD) 0.00' VACUUM Yes	AIR	SINK	WASTEWATER         REATMENT PLAK         (VVVTP) ADMIN         BUILDING         BID NUMBER 7.24         ARCADIS PROJ. NO.         30183827         ARCADIS PROJ. NO.         30183827         NO.         DATE         INO.         DATE         SEPTEMBER 2024         PROJECT NO.:         30183827         FILE NAME:         DESIGNED BY:       ED         DRAWN BY:       GF
S LINE TOR	ITEM Lab Fridge Oven Muffle furnace Hood pH meter Lab testing-multi Imhoff cone	DESCRIPTION         Accucold Under counter - NIST certified         sample preservation         QL Gravity convection oven 1.27 ft3         solids testing         Yamato 3.7 liter 110v         MLVSS testing         5' Fisher American Fume Hood         Hach Benchtop sensION+         required testing         Hach DR3900         (2x) DWK Life Science Kimax 1 L         required testing	FE       (15.9 NAVD)         4.75'         FINISH FLOOR         (11.00 NAVD)         0.00'         4'         8         4'         8         68771         FO200cr         NLS-403         41259         LPV440.99.00012         41371	EQUIPMENT SCHE VENDOR Katom USA Bluebook The Lab Depot National Laboratory Sales Fisher American USA bluebook	4       LAB         A-10       SCALE: 1/4" = 1'-0"         0       0         EDULE       0         EDULE       115 V AC/60 Hz         115 V AC/60 Hz       115 V AC/60 Hz         4' - 0" Wide       100-240 V, 47-63 Hz         110-240 V, 50-60 Hz       110-240 V, 50-60 Hz         Not Powered       Not Powered	2'4'	DFE (15.9 N BASE CABIN FINISH FL (11.00 N 8'	AVD) 4.75' JET OOR AVD) 0.00' VACUUM Yes	AIR	SINK	WASTEWATER         REATMENT PLA         (WWVTP) ADMIN         BUILDING         BUILDING         RENOVATION         BID NUMBER 7.24         ARCADIS PROJ. NO.         30183827         NO.         DATE         INO.         DATE         SEPTEMBER 2024         PROJECT NO.:         30183827         FILE NAME:         DESIGNED BY:       ED         DRAWN BY:       GF         CHECKED BY:       LA
S LINE TOR	ITEM Lab Fridge Oven Muffle furnace Hood pH meter Lab testing-multi Imhoff cone drying rack	Image: Second colspan="2">Image: Second colspan="2">Image: Second colspan="2" Second	FE       (15.9 NAVD)         4.75'         FINISH FLOOR         (11.00 NAVD)         0.00'         4'         4'         ACR45L         68771         FO200cr         NLS-403         41259         LPV440.99.00012         41371         40785	EQUIPMENT SCHE VENDOR Katom USA Bluebook The Lab Depot National Laboratory Sales Fisher American USA bluebook Hach USA Bluebook	4       LAB         A-10       SCALE: 1/4" = 1'-0"         0       0         EDULE       0         EDULE       115 V AC/60 Hz         115 V AC/50/60 Hz       115 V AC/50/60 Hz         4' - 0" Wide       100-240 V, 47-63 Hz         110-240 V, 50-60 Hz       110-240 V, 50-60 Hz         Not Powered       Not Powered	2'       4'         AMPERAGE       H         1 A       6.3 A         14.5A	DFE (15.9 N BASE CABIN FINISH FL (11.00 N 8' 8' 8' Yes	AVD) 4.75' JET OOR AVD) 0.00' VACUUM Yes	AIR	SINK Yes	WASTEWATER         Image: Constraint of the second
S LINE TOR	ITEM   ITEM   Lab Fridge   Oven   Muffle furnace   Hood   PH meter   Lab testing-multi   Imhoff cone   drying rack   Air flow monitor	Image: Second structure         DESCRIPTION         Accucold Under counter - NIST certified         sample preservation         QL Gravity convection oven 1.27 ft3         solids testing         Yamato 3.7 liter 110v         MLVSS testing         5' Fisher American Fume Hood         Hach Benchtop sensION+         required testing         Hach DR3900         (2x) DWK Life Science Kimax 1 L         required testing         Glassware drying rack         cleaning lab glassware         Vaneometer         bood opertional verification	FE       (15.9 NAVD)         4.75'         FINISH FLOOR         (11.00 NAVD)         0.00'         4'         4'         ACR45L         68771         FO200cr         NLS-403         41259         LPV440.99.00012         41371         40785         UX-78900-12	EQUIPMENT SCHE VENDOR Katom USA Bluebook The Lab Depot National Laboratory Sales Fisher American USA bluebook Hach USA Bluebook USA Bluebook USA Bluebook	Image: A scale         Power           A and because of the scale         0           A because of the scale         0           B because of the scale         0	2'       4'         AMPERAGE       H         1 A       6.3 A         14.5A	DFE (15.9 N BASE CABIN FINISH FL (11.00 N 8' 8' 8' 1EAT WATER Yes	AVD) 4.75' JET OOR AVD) 0.00' VACUUM Yes	AIR	SINK Yes	WASTEWATER         TREATMENT PLA         (WWTP) ADMIN         BUILDING         BUINMBER 7.24         ARCADIS PROJ. NO. 30183827         ARCADIS PROJ. NO. 30183827         NO.         DATE         INO.         DATE         INO.         DATE         SIGNED BY:         IDESIGNED BY:         IDRAWN BY<
S LINE TOR	ITEM   Lab Fridge   Oven   Muffle furnace   Hood   PH meter   Lab testing-multi   Imhoff cone   drying rack   Air flow monitor   Analytical balance	Image: Second structure         DESCRIPTION         Accucold Under counter - NIST certified         sample preservation         QL Gravity convection oven 1.27 ft3         solids testing         Yamato 3.7 liter 110v         MLVSS testing         5' Fisher American Fume Hood         Hach Benchtop sensION+         required testing         Hach DR3900         (2x) DWK Life Science Kimax 1 L         required testing         Glassware drying rack         cleaning lab glassware         Vaneometer         hood opertional verification         Ohaus Pioneer Analytical Balance PX224	FE       (15.9 NAVD)         4.75'         FINISH FLOOR         (11.00 NAVD)         0.00'         4'         4'         ACR45L         68771         FO200cr         NLS-403         41259         LPV440.99.00012         41371         40785         UX-78900-12         90153	EQUIPMENT SCHE VENDOR Katom USA Bluebook The Lab Depot National Laboratory Sales Fisher American USA bluebook Hach USA bluebook USA Bluebook USA Bluebook	Image: Constraint of the second sec	2'4'	DFE (15.9 N BASE CABIN FINISH FL (11.00 N 8' 8' 8' 9 1EAT WATER 8' 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	AVD) 4.75' JET OOR AVD) 0.00' VACUUM Yes	AIR	SINK Yes	WASTEWATER         TREATMENT PLA         (WWTP) ADMIN         BUILDING         BUILDING         RENOVATION         BID NUMBER 7.24         ARCADIS PROJ. NO. 30183827         ARCADIS PROJ. NO. 30183827         NO.       DATE         ISSUED FOR         NO.       DATE         ISSUED FOR         COPYRIGHT:       ARCADIS OF NEW YOR         2014       INC.         DATE:       SEPTEMBER 2024         PROJECT NO.:       30183827         FILE NAME:       IDESIGNED BY:         DESIGNED BY:       ED         DRAWN BY:       GF         CHECKED BY:       LA         SHEET TITLE       ARCHITECTURAL         LAB - PLAN,       LAB - PLAN,
S LINE TOR	ITEM   ITEM   Lab Fridge   Oven   Muffle furnace   Hood   pH meter   Lab testing-multi   Imhoff cone   drying rack   Air flow monitor   Analytical balance   settlometer	Image: Section of the s	FE       (15.9 NAVD)         4.75'         FINISH FLOOR         (11.00 NAVD)         0.00'         4'         4'         ACR45L         68771         FO200cr         NLS-403         41259         LPV440.99.00012         41371         40785         UX-78900-12         90153         20798	EQUIPMENT SCHE VENDOR Katom USA Bluebook The Lab Depot National Laboratory Sales Fisher American USA bluebook Hach USA bluebook USA Bluebook USA Bluebook USA Bluebook	Image: A constraint of the second s	2'       4'         2'       4'         AMPERAGE       H         1 A       6.3 A         14.5A	DFE (15.9 N BASE CABIN FINISH FL (11.00 N 8' 8' 8' 1EAT WATER Yes	AVD) 4.75' JET OOR AVD) 0.00' VACUUM Yes	AIR	SINK Yes	WASTEWATER         TREATMENT PLA         (WWTP) ADMIN         BUILDING         BID NUMBER 7.24         ARCADIS PROJ. NO.         30183827         ARCADIS PROJ. NO.         30183827         NO.         DATE         INO.         DATE         INO.         DATE         SEPTEMBER 2024         PROJECT NO.:         30183827         FILE NAME:         DESIGNED BY:         ED         DRAWN BY:         GF         CHECKED BY:         LA         SHEET TITLE         ARCHITECTURAL         LAB - PLAN,         ELEVATION ANI         EQUIPMENT
	ITEM Lab Fridge Oven Muffle furnace Hood pH meter Lab testing-multi Imhoff cone drying rack Air flow monitor Analytical balance settlometer	Image: Second Structure	FE       (15.9 NAVD)         4.75'         FINISH FLOOR         (11.00 NAVD)         0.00'         4'         4'         ACR45L         68771         FO200cr         NLS-403         41259         LPV440.99.00012         41371         40785         UX-78900-12         90153         20798         IR250W/H	EQUIPMENT SCHE EQUIPMENT SCHE VENDOR Katom USA Bluebook The Lab Depot National Laboratory Sales Fisher American USA bluebook Hach USA bluebook	4       LAB         A-10       SCALE: 1/4" = 1'-0"         COMMENT       POWER         115       VAC/60 Hz         115       VAC/60 Hz         115       VAC,50/60 Hz         4' - 0" Wide       100-240 V, 47-63 Hz         110-240 V, 50-60 Hz       110-240 V, 50-60 Hz         Not Powered       Not Powered         Not Powered       100-240V, 50-60 Hz         Not Powered       Not Powered	2'       4'         2'       4'         AMPERAGE       H         1 A       6.3 A         14.5A	BASE CABIN FINISH FL (11.00 N 8' 8' 8' 1EAT WATER 8' 1EAT WATER	AVD) 4.75' JET OOR AVD) 0.00' VACUUM Yes Ves	AIR Yes	SINK Yes	WASTEWATER         REATMENT PLAK         (WWTP) ADMIN         BUILDING         BID NUMBER 7.24         ARCADIS PROJ. NO.         30183827         ARCADIS PROJ. NO.         30183827         NO.         DATE         ISSUED FOR         NO.         DATE         ISSUED FOR         OPYRIGHT:         ARCADIS OF NEW YOR         2014         INC.         DATE:         SEPTEMBER 2024         PROJECT NO:         30183827         FILE NAME:         DESIGNED BY:       ED         DRAWN BY:       GF         CHECKED BY:       LA         SHEET TITLE         ARCHITECTURAL         LAB - PLAN,         EQUIPMENT         SCHEDULE
	ITEM   IA   ITEM   Lab Fridge   Oven   Muffle furnace   Hood   PH meter   Lab testing-multi   Imhoff cone   drying rack   Air flow monitor   Analytical balance   settlometer   ice maker	Image: Second State Sta	FE       (15.9 NAVD)         4.75'         FINISH FLOOR         (11.00 NAVD)         0.00'         4'         4'         ACR45L         68771         FO200cr         NLS-403         41259         LPV440.99.00012         41371         40785         UX-78900-12         90153         20798         IB250WH	EQUIPMENT SCHE EQUIPMENT SCHE VENDOR Katom USA Bluebook The Lab Depot National Laboratory Sales Fisher American USA bluebook Hach USA bluebook	Image: Constraint of the second sec	2'4'	DFE (15.9 N BASE CABIN FINISH FL (11.00 N 8' 8' 8' 9 1EAT WATER 8' 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	AVD) 4.75' JET OOR AVD) 0.00' VACUUM Yes	AIR	SINK Yes	WASTEWATER         TREATMENT PLAI         (WWTP) ADMIN         BUILDING         RENOVATION         BID NUMBER 7.24         ARCADIS PROJ. NO.         30183827         ARCADIS PROJ. NO.         30183827         NO.         DATE         INO.         DATE         SUBATE         DATE         SUBATE         DATE         SUBATE         DATE         SUBATE         DATE         SUBATE         DATE         SUBATE         DATE         SHEET TITLE         ARCHITECTURAL         LAB - PLAN,         ELEVATION AND         EQUIPMENT         SCHEDULE

1. ITEMS LISTED IN THE LABORATORY EQUIPMENT SCHEDULE SHALL BE PROVIDE BY GENERAL CONTRACTOR WITH USED ON ALLOWANCE, UNLESS OTHERWISE NOTED.



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	LEGAL ENTITY: ARCADIS OF NEW YORK, INC.
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	9/6/2024
	ORANGE COUNTY, NEW YORK CITY OF NEWBURGH
	WASTEWATER TREATMENT PLANT
	(WWTP) ADMIN BUILDING
	RENOVATION
	BID NUMBER 7.24 ARCADIS PROJ. NO. 30183827
	NO. DATE ISSUED FOR BY
	COPYRIGHT: ARCADIS OF NEW YORK, 2014 INC.
	DATE:         SEPTEMBER 2024           PROJECT NO.:         30183827
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	A-20 SHEET 12 OF 51



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6	ARCADIS
	LEGAL ENTITY: ARCADIS OF NEW YORK, INC.
TOP OF BRICK 8.00'	CONSULTANTS
DFE (15.9 NAVD) 4.75'	
FINISH FLOOR (11.00 NAVD) 0.00'	
	SEALS
	ORANGE COUNTY, NEW YORK CITY OF NEWBURGH
TOP OF BRICK 8.00' DFE (15.9 NAVD) 4.75' FINISH FLOOR (11.00 NAVD) 0.00'	WASTEWATER TREATMENT PLANT (WWTP) ADMIN BUILDING RENOVATION
8'	BID NUMBER 7.24 ARCADIS PROJ. NO. 30183827
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	SCALE: 1/4" = 1'-0"
	A-23 SHEET 15 OF 51

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	TOP OF BRICK 8.00'	LEG ARC	AL ENTITY: ADIS OF NEV	W YORK, INC.	
	DFE (15.9_NAVD) 4.75'	CON	SULTANTS		
	FINISH FLOOR (11.00_NAVD) 0.00'				
Ξ <b>Α</b> <sup>0"</sup>	0'4'8'	SEA	IS		
	TOP OF BRICK 8.00'		+ REQU	TERED ARCHITCO	
	DFE (15.9 NAVD) 4.75'		ORAN	9/ NGE COUNTY, NEW	6/2024
	FINISH FLOOR (11.00 NAVD) 0.00'		CITY	OF NEWBURGH	
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-0"	0' 2' 4' 8'		WAS TREAT (WW B REI	STEWATER MENT PLAN (TP) ADMIN UILDING NOVATION	Т
		BID I ARC	NUMBER 7.2 ADIS PROJ.	24 NO. 30183827	
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BID NUMBER 7.2	4	
ARCADIS PROJ.	NO. 30183827	
NO. DATE	ISSUED FOR	BY
COPYRIGHT: ARC 2014 INC	CADIS OF NEW YORK,	
-		
DATE:	SEPTEMBER 2024	
FILE NAME:	30183827	
DESIGNED BY:	Designer	
DRAWN BY:	Author	
CHECKED BY:	Checker	
7.1.0		
PANT	RY DETAILS	
	1/2" = 1'-0"	
	A-26	
SHEET 1	8 OF 51	_

![](_page_18_Figure_0.jpeg)

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		LEG/ ARC/	AL ENTITY: ADIS OF NEV	V YORK, INC.	
		CON	SULTANTS		
		SEAL	_S	TERED ARCHI	
			* REG		
			- Contraction	023835 10 TE OF NEW 10	
			ORAN	9/6 IGE COUNTY, NEW YORK	6/2024
			CITY (	OF NEWBURGH	
			WAS	TEWATER	
			TREAT (WW	MENT PLANT TP) ADMIN	Г
			B REN	UILDING NOVATION	
		BID 1	NUMBER 7.2	4	
		ARC	ADIS PROJ.	NO. 30183827	
		NO.	DATE	ISSUED FOR	BY
		COPY 2014	Right: Arg	CADIS OF NEW YORK,	
		DATE:	:	SEPTEMBER 2024	
		PROJI FILE N	ECT NO.: NAME:	30183827	
		DESIG DRAW	GNED BY: /N BY:	ED GF	
M WINDOW, SEE DOW SCHEDULE,		CHEC SHEI	KED BY: ET TITLE	LA	
	ALUM WINDOW, INTERIOR SNAP TRIM, 1" x 5" VIF ON ALL SIDES, TYP		ARC	HITECTURAL	
			D	ETAILS I	
	FURRED WALL, SEE PLAN FOR PARTITION TYPE, PAINT				
	ON WIRE MESH				
WINDOW SILL S4 A	Т	SCA	LĒ:	As indicated	
INFILL MASONRY           SCALE: 1 1/2" = 1'-0"	2'	SI	HEET 1	<b>A-50</b> 9 OF 51	
					-

![](_page_19_Figure_0.jpeg)

6	
0	ARCADIS
	LEGAL ENTITY: ARCADIS OF NEW YORK, INC.
	CONSULTANTS
IRIFY WITH DUCTWORK	
FIN. GYP SOFFIT ELEV: V.I.F.	
	SEALS
	VORK CITY OF NEWBURGH WASTEWATER TREATMENT PLANT
	(WWTP) ADMIN BUILDING RENOVATION
	ARCADIS PROJ. NO. 30183827
	NO. DATE ISSUED FOR BY COPYRIGHT: ARCADIS OF NEW YORK,
	2014 INC.
	DATE: SEPTEMBER 2024
	PROJECT NO.: <u>30183827</u>
	DESIGNED BY: ED
	DRAWN BY: GF
	CHECKED BY: LA
	ARCHITECTURAI
	DETAILS II
	SCALE: 1 1/2" = 1'-0" A-51
	SHEET 20 OF 51

		1				2	-		ROO	M FIN	NISH S	SCHED	ULE					4				5
E	BUILDING NAME CONTROL BLDG CONTROL BLDG CONTROL BLDG CONTROL BLDG	<b>ROOM NO.</b> 101 101A 101B 102	ROOM NAME LOBBY WORK AREA HALL LAB	FLOOR CONC/ECT CONC/ECT CONC/ECT	BASE M RB RB RB RB RB RB	ATERIAL CMU CMU CMU CMU	NORTH FINISH P1 P1 P1 P1 P1	COLOR TBD - C1 TBD - C1 TBD - C1 TBD - C2	MATERIAL CMU CMU CMU GYP BD	SOUTH           FINISH           P1           P1           P1           P1           P1	COLOR TBD - C1 TBD - C1 TBD - C1 TBD - C1 TBD - C2	MATERIAL CMU GYP BD CMU GYP BD	EAST FINISH P1 P1 P1 P1 P1	COLOR TBD - C1 TBD - C1 TBD - C1 TBD - C2	MATERIAL CMU CMU CMU CMU	WEST           FINISH           P1           P1           P1           P1	COLOR TBD - C1 TBD - C1 TBD - C1 TBD - C2	MATERIAL ACT ACT ACT ACT	FINISH P0 P0 P0 P0 P0	COLOR WH WH WH	R(	OM FINISH NOTES
-	CONTROL BLDG CONTROL BLDG	103 104	UNISEX TOILET ROOM OFFICE A	CONC/ECT CONC/ECT	RB RB	CT/CMU GYP BD	P0/P1 P1	TBD - C3 TBD - C4	CT/CMU GYP BD	P0/P1 P1	TBD - C3 TBD - C4	CT/CMU GYP BD	P1 P1	TBD - C3           TBD - C4	CT/CMU GYP BD	P0/P1 P1	TBD - C3 TBD - C4	ACT ACT	P0 P0	WH WH		
	CONTROL BLDG CONTROL BLDG	105 105A	LOCKER RM BATHROOM	CONC/ECT CONC/ECT	RB RB	CMU CT/CMU	P1 P0/P1	TBD - C3 TBD - C3	CMU CT/CMU	P1 P0/P1	TBD - C3 TBD - C3	CMU CT/CMU	P1 P1	TBD - C3 TBD - C3	CMU CT/CMU	P1 P0/P1	TBD - C3 TBD - C3	ACT ACT	P0 P0	WH WH		
	CONTROL BLDG CONTROL BLDG	105B 106	MECH RM OFFICE B	CONC/ECT CONC/ECT	NA RB	CMU GYP BD	P1 P1	TBD - C5 TBD - C4	CMU GYP BD	P1 P1	TBD - C5 TBD - C4	CMU GYP BD	P1 P1	TBD - C5 TBD - C4	CMU GYP BD	P1 P1	TBD - C5 TBD - C4	NA ACT	P1 P0	WH WH		
	CONTROL BLDG CONTROL BLDG	107 107A	CONFERENCE ROOM SCADA ROOM	CONC/ECT CONC/ECT	RB RB	CMU CMU	P0/P1 P1	TBD - C4 TBD - C4	CMU CMU	P1 P1	TBD - C4 TBD - C4	CMU/GYP BI CMU	D P1 P1	TBD - C4 TBD - C4	CMU GYP BD	P1 P1	TBD - C4 TBD - C4	ACT ACT	P0 P0	WH WH		
	CONTROL BLDG CONTROL BLDG	110 110A	CHEMICAL STORAGE CHEMICAL RM A	CONC/ECT CONC/ECT	ETR ETR	ETR ETR	ETR ETR	EX EX	ETR ETR	ETR ETR	EX EX	ETR ETR	ETR ETR	EX EX	ETR ETR	ETR ETR	EX EX	ETR ETR	ETR ETR	EX EX		
	CONTROL BLDG	110B	CHEMICAL RM B	CONC/ECT	ETR	ETR	ETR	EX	ETR	ETR	EX	ETR	ETR	EX	ETR	ETR	EX	ETR	ETR	EX		
								D	OOR /	and f	RAM	E SCH	EDU	LE								
	BUILDING NAME CONTROL BLDG	ROOM           NO.           101B	ROOM NAME HALL	<b>DOOR NO.</b> 101B-01	<b>WIDTH</b> 3' - 0"	HEI0 7' -	<b>GHT T</b> 10"	G DOOR	ATERIAL ( HM (	GLAZING GL-INSUL	<b>WIDTH</b> 3' - 4"	<b>HEIGHT</b> 8' - 0"	FRAME TYPE A	MATERIAL HM	GLAZING NA	FIRE RA	TING HI	DET EAD JA H1 J	AILS MB TH 1	IRESHOLD S1	DOOR HARDWARE 1.c	DOOR AND FRAME NOTES
	CONTROL BLDG CONTROL BLDG	101 102	LOBBY LAB	101B-07 102-01	3' - 0" 3' - 0"	7' - 7' -	10" · 2"	D . N	ALUM C HM C	GL-INSUL GL-INSUL	4' - 5 7/8" 3' - 4"	8' - 0" 7' - 4"	B A	ALUM HM	NA NA	NA NA		H3 J H2 J	3 2	S3 S2	1.b 1.c	
D	CONTROL BLDG CONTROL BLDG	102 104	LAB OFFICE A	102-02 104-01	3' - 0" 3' - 0"	- '7' - 7' -	· 2" · 2"	F F	HM HM	NA NA	3' - 4" 3' - 4"	7' - 4" 7' - 4"	A A	HM HM	NA NA	NA NA	H3	H2 J3	SIM 2	S2 S2	1.a 1.a	
	CONTROL BLDG CONTROL BLDG	105 105	LOCKER RM LOCKER RM	105C-01 105C-02	3' - 0" 3' - 0"	- '7' - 7' -	· 2" · 2"	F L	HM HM	NA NA	3' - 4" 3' - 4"	7' - 4" 7' - 4"	A A	HM HM	NA NA	NA NA		H2 J H2 J	2 2	S2 S2	1.a 1.a	
	CONTROL BLDG CONTROL BLDG	105A 103	RESTRM UNISEX RESTRM	105C-04 105C-05	3' - 0" 3' - 0"	- '7' - 7' -	· 2" · 2"	F L	HM HM	NA NA	3' - 4" 3' - 4"	7' - 4" 7' - 4"	A A	HM HM	NA NA	NA NA		H2 J H2 J	2 2	S2 S2	1.d 1.d	
	CONTROL BLDG CONTROL BLDG	106 107	OFFICE B CONF RM	106-01 107-01	3' - 0" 3' - 0"	- '7' - 7' -	· 2" · 2"	F F	HM HM	NA NA	3' - 4" 3' - 4"	7' - 4" 7' - 4"	A A	HM HM	NA NA	NA NA		H2 J H2 J	2 2	S2 S2	1.a 1.a	
	CONTROL BLDG CONTROL BLDG		SCADA SCADA	107A-01 107A-02	2' - 4" 2' - 4"	- '7' - 7' -	· 0" · 0"	LF LF	HM HM	NA NA	2' - 8" 2' - 8"	7' - 0" 7' - 0"	C C	NA NA	NA NA	NA NA		H2 J H2 J	2 2	S2 S2	NA NA	NOTE 1 NOTE 1
						\ \	WINE siz	DOW	SCHE	DULE					DE	TAILS			RC	OM FI	NISH SC	HEDULE NOTES
	BUILDING NAMECONTROL BLDG3-1/4	DESCIPTION	WINDOW TYPE W PROJECTION OUT	TYPEMARW1W1-	3 ALU	"L V M 2	<b>WIDTH</b> 2' - 10"	<b>HEIGHT</b> 3' - 3"	<b>WIN</b> 1" INS	DOW GLASS	D EXT	SILL RUDED ALUM	STOO ALUN	L H	EAD J H4	AMB J4	SILL S4	NOTES	1. V C	VORK IN EXIS	STING TO REM D WITH OWNE	AIN AREAS SHALL BE R. FINISHES DAMAGED SH
	CONTROL BLDG 3-1/4 CONTROL BLDG 3-1/4	I" ALUM WINDO I" ALUM WINDO	W PROJECTION OUT W PROJECTION OUT	W1 W1- W1 W1-	4 ALU 5 ALU	M 2 M 2	2' - 10" 2' - 10"	3' - 3" 3' - 3"	1" INS 1" INS	UL TEMPERE UL TEMPERE	D EXT	RUDED ALUM RUDED ALUM	ALUN ALUN	1	H4 H4	J4 J4	S4 S4		E V	E REFINISHE	ED TO MATCH YPE AND COL T TO 5' BEYON	EXISTING. PAINT SURFACE OR TO MATCH EXISTING.
	CONTROL BLDG3-1/4CONTROL BLDG3-1/4	I" ALUM WINDO	W PROJECTION OUT W PROJECTION OUT	W1 W1- W1 W1-	6 ALU 7 ALU	M 2 M 2	2' - 10" 2' - 10"	3' - 3" 3' - 3"	1" INS 1" INS	UL TEMPERE	D EXT	RUDED ALUM RUDED ALUM	ALUN ALUN	1	H4 H4	J4 J4	S4 S4		C	AMAGE.	I TO O DETOI	
C	CONTROL BLDG3-1/4CONTROL BLDG3-1/4	I" ALUM WINDO	W PROJECTION OUT W OPERABLE	W1 W1- W2 W2-	8 ALU 1 ALU	M 2 M 3'	2' - 10" ' - 4 1/8"	3' - 3" 3' - 3"	1" INS 1" INS	UL TEMPERE	D EXT	RUDED ALUM RUDED ALUM	ALUM	1	H4 H4	J4 J4	S4 S4					
	CONTROL BLDG3-1/4CONTROL BLDG3-1/4	I" ALUM WINDO I" ALUM WINDO	W OPERABLE W OPERABLE	W2 W2- W2 W2-	2 ALU 3 ALU	M 3' M 3'	' - 4 1/8" ' - 4 1/8"	3' - 3" 3' - 3"	1" INS 1" INS	UL TEMPERE	D EXT	RUDED ALUM RUDED ALUM	ALUN	1	H4 H4	J4 J4	S4 S4		DC	OR ANI	D FRAMI	E SCHEDULE NO
																			1. F F		RS SHALL BE	PROVIDED WITH THE
																			A	. RECESSE	D EDGE PULL D FLUSH DOO	R PULL (MIN 4" TALL)
																			C	ADAM RIT	T DEADLOTCH E MS+ 1890 S	I AND LÀTCH WITH THUMB ERIES OR EQUAL.
	AS		AS			AS							AS				AS					
		-1- 	SCHEDULED						AS SCHED			EQ	SCHEDUL	LED EQ		SCHE	DULED					
В				_ NSULATED			- 			<b>1"</b>	INSULATED	+										
	E	LED 1' - 8"	GLA	AZING, MPERED			GLAZINO	G, O RED IJ		GL TE	AZING, MPERED	E			E							
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	TYPE F	+ +	TYPE N	2	<u>+</u> _+_⊥ <u>⊺</u>	YPE G		+	<u>TYF</u>	PE D		+ ↑ •	TYPE	L	+:	÷⊁_ <u>TYF</u>	<u>'E LF</u>					
	DOOR TY	PE EL	EVATION	S								<del>.</del>										
	SCALE: 1/4" = 1'-0"	CENT	ERLINE			[	GLAZIN	G, SEE	5	AS SCHEDULED ⊬────		2"A	s <sup>2"</sup> 2'-	5"2"	L							
	AS SCHEDULED	OF COLU	DNC IMN	EQ	EQ	EQ		ULE	₹ <mark>№ 2"-</mark> 7		2" īv	ŠCHEI	DULEĎ		GLAZING,							
		GLAZ				· ,									SCHEDULE							
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		WIND		VIF	<u> </u>			2	AS S		AS Si			3'-1"		AS S						
	* VIF	WITH SCRE	INTERIOR <sup>+</sup>			SCR	REEN	•							-							
					T\/>= ··· -	FIXE	<u>-</u> D			<u>TYPE A</u>	1.	<u>T</u>	<u> </u>	1		סחסער						
					IYPE W-2									NIC		FUCKE						
	SCALE: 1/4" = 1'-0"								SCALI	E: 1/4" = 1'-0"												

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HALL E

### NOTES

- BTURN,

![](_page_20_Figure_10.jpeg)

GYPSU
LUXUR
MOVAE
RUBBE
RUBBE
STAINL

AWARDED AFTER CONTRACT	AAC
EMBOSSED	EM
EXISTING	EX
MATCH EXISTING	ME
NO (ADDITIONAL) FINISH, MATERIAL COLOR	NF
NOT PAINTED	NP
PAINTED	PNT
PAINTED - FLAT	PNTF
PAINTED - GLOSS	PNTG
PAINTED - SEMI-GLOSS	PNTSG
STAINED	STN
TEXTURED	ТХ
TO BE DETERMINED	TBD

AWARDED AFTER CONTRACT	AAC
EXISTING	EX
GREY	GR
MATCH EXISTING	ME
NO COLOR	NC
OFF-WHITE	OW
TAN	TAN
TO BE DETERMINED (C# COLOR SELECTIONS	TBD
WHITE	WH

# MATE

ERIAL	LEGEND:

ACOUSTICAL CONCRETE BLOCK	ACB
ACOUSTICAL CEILING TILE - SUSPENDED	ACT
ALUMINUM	ALUM
BRICK VENEER	BV
CARPETING	С
CONCRETE WITH HARDENER	СН
CAST IN PLACE CONCRETE	CIPC
CORRUGATED METAL PANEL	СМР
CONCRETE MASONRY UNITS	СМU
CONCRETE	CONC
CHEMICAL RESISTANT CONCRETE TOPPING	CRCT
CHEMICAL RESISTANT TILE	CRT
CERAMIC COVE BASE	ССВ
CERAMIC TILE	СТ
EPOXY CONCRETE TOPPING	ECT
EXPOSED ROOF STRUCTURE	ERS
EXPOSED STEEL STRUCTURE	ESS
EXISTING	EX
FLOOR MAT	FM
GYPSUM WALLBOARD	GPBD
LUXURY VINYL TILE	LVT
MOVABLE PARTITION	MP
RUBBER TILE	RT
RUBBER COVE BASE	RCB
STAINLESS STEEL	SST
VINYL COMPOSITION TILE	VCT

6

![](_page_20_Picture_29.jpeg)

# FINISH LEGEND:

# COLOR LEGEND:

WASTEWATER	
TREATMENT PLAN	Γ
(WWTP) ADMIN	
BUILDING	
RENOVATION	

BID NUMBER 7.24	

ARCADIS PROJ. NO. 30183827

NO.	DATE	ISSUED FOR	BY

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DATE:	SEPTEMBER 2024
PROJECT NO .:	30183827
FILE NAME:	
DESIGNED BY:	ED
DRAWN BY:	GF
CHECKED BY:	LA
SHEET TITLE	

ARCHITECTURAL

# SCHEDULES, DOOR AND WINDOW TYPES, LEGENDS

SCALE:	As indicated	
	A-52	

SHEET 21 OF 51

GENE	
	ERAL:
1.	THE CONTRACT DRAWINGS HAVE BEEN PREPARED FOR THE PURPOSE OF INDICATING
•	TO BIDDERS THE GENERAL TYPE OF CONSTRUCTION OR ALTERATION.
2.	ALL DIMENSIONS AND CONDITIONS OF EXISTING STRUCTURES CONTROLLING NEW
	ON THE ACTUAL FIELD CONDITIONS.
3.	ANY PORTION OF EXISTING WORK WHICH IS REMOVED, DISTURBED OR DAMAGED IN THE
	COURSE OF INSTALLATION OF NEW WORK SHALL BE RESTORED TO A CONDITION AS
4	WHEN EXISTED BEFORE THE COMMENCEMENT OF THE WORK.
	REMOVED SUITABLE SUPPORTS SHALL BE PROVIDED FOR THE REMAINING WORK. THE
	NEW SUPPORTS SHALL BE SIMILAR TO THE EXISTING. THE CONTRACTOR IS REQUIRED
	TO SUBMIT SHOP DRAWINGS SHOWING THE DETAILS OF NEW SUPPORTS WHICH SHALL
	BE REPLACED IN KIND.
5.	THESE NOTES ARE GENERAL AND SUPPLEMENTAL TO THE SPECIFICATIONS AND APPLY
	TO ENTIRE PROJECT UNLESS MODIFIED OR NOTED OTHERWISE IN THE CONTRACT
6	DUCUMENTS. SECTIONS/DETAILS APPLY TO SIMILAR LOCATIONS AND CONDITIONS UNLESS
0.	OTHERWISE INDICATED.
7.	TYPICAL SECTIONS/DETAILS AS SHOWN ON STRUCTURAL TYPICAL DRAWING SHALL BE
	USED WHEN REFERRED TO, OR WHEN OTHER SECTIONS/DETAILS ARE NOT SHOWN ON
8	DESIGN IS IN ACCORDANCE WITH AND CONSTRUCTION SHALL COMPLY WITH THE
0.	PROVISIONS OF THE 2020 NEW YORK STATE BULDING CODE.
9.	EQUIPMENT ANCHOR BOLT SIZES, TYPES, AND PATTERNS SHALL BE AS REQUIRED BY
	TEMPLATED TO INSURE ACCURACY OF PLACEMENT
10.	STRUCTURAL DRAWINGS SHALL BE USED IN COORDINATION WITH DRAWINGS OF ALL
	OTHER DISCIPLINES AND MANUFACTURER'S SHOP DRAWINGS.
11.	IF CONFLICT IS FOUND BETWEEN DIFFERENT PORTIONS OF THE CONTRACT
	DUCUMENTS THE CONTRACTOR SHALL NUTIFY THE OWNER IMMEDIATELY. CONTINUED CONSTRUCTION OF THE AREA IN CONFLICT SHALL BE AT CONTRACTOR'S OWN DISK
	UNTIL THE CONFLICT IS RESOLVED BY THE OWNER.
12.	STRUCTURES HAVE BEEN DESIGNED FOR OPERATIONAL LOADS ON THE COMPLETED
	STRUCTURE. DURING CONSTRUCTION, THE STRUCTURES SHALL BE PROTECTED BY
	MAY OCCUR. OVERSTRESSING OF ANY STRUCTURAL FLEMENT IS PROHIBITED
13.	CONTRACTOR'S CONSTRUCTION AND/OR ERECTION SEQUENCES SHALL RECOGNIZE
	AND CONSIDER THE EFFECTS OF THERMAL MOVEMENTS OF STRUCTURAL ELEMENTS
1/	DURING THE CONSTRUCTION PERIOD.
· <del>·</del> ·	OTHER DISCIPLINE DRAWINGS. OPENINGS SIZES LESS THAN 12" ARE NOT SHOWN ON
	STRUCTURAL DRAWINGS, REFERENCE OTHER DISCIPLINE DRAWINGS FOR LOCATIONS.
15.	FOR OPENINGS AND PENETRATIONS:
	THE CONTRACTOR SHALL SUBMIT COMPOSITE DRAWINGS INDICATING ALL FLOOR OPENING AND PENETRATIONS THROUGH STRUCTURAL MEMBERS REQUIRED TO
	ACCOMMODATE THE HVAC, PLUMBING AND ELECTRICAL WORK. THE CONTRACTOR
	SHALL FOLLOW THE TYPICAL FRAMING DETAILS AT OPENINGS AND REINFORCEMENT
	DETAILS AT PENETRATIONS THROUGH STRUCTURAL MEMBERS. ACCORDINGLY, THE
1.	CONCRETE SHALL BE AS SPECIFIED IN THE SPECIFICATIONS. THE COMPRESSIVE STRENGTH SHALL NOT BE LESS THAN 4500 PSI WHEN TESTED AT TWENTY-EIGHT (28) DAYS, UNLESS OTHERWISE NOTED. CONCRETE
•	SHALL BE AIR ENTRAINED.
2.	SIELL REINFORCEMENT BARS SHALL CONFORM TO ASTM A615, GRADE 60. WELDED WIRE FABRIC (WWF)
3.	PRIOR TO PLACEMENT OF NEW CONCRETE AGAINST EXISTING CONCRETE STRUCTURE THE EXISTING
	STRUCTURE SHALL BE CLEANED TO SOUND CONCRETE AND ALL FOREIGN SUBSTANCES REMOVED. APPLY
	BONDING AGENT TO EXISTING CONCRETE BEFORE PLACING NEW CONCRETE.
4.	SHOP DRAWINGS FOR REINFORCING BARS SHALL INCLUDE SPLICE LENGTHS AND LOCATION EMBEDMENT
5.	REMOVAL OF ALL EXISTING CONCRETE SHALL BE INITIATED BY SAW CUT.
6.	ANCHOR BOLTS IN CONCRETE SHALL BE ASTM A36 UNLESS OTHERWISE NOTED.
7.	
	A. SURFACE CAST AGAINST SUBGRADE: 3" B. TOP SURFACES SURFACES OF SLARS WHERE PVC
	WATERSTOP IS REQUIRED IN WALLS: 3"
	C. FORMED SURFACES IN CONTACT WITH
	WEATHER, SOIL, OR LIQUID: 2"
	E. SURFACES NOT IN CONTACT NOT WITH
	WEATHER, SOIL, OR LIQUID: 1 1/2"
8.	ROUGHEN SURFACES OF HORIZONTAL JOINTS AT INTERFACE OF CONSTRUCTION JOUNT TO 1/4" MINIMUM
9	AWFLITUDE, WHERE SHOWN ON DRAWINGS AND AT LOCATIONS WHERE NO KEYWAYS ARE DETAILED.
	CONSTRUCTION JOINTS SHALL BE LOCATED AS REQUIRED BY THE SPECIFICATIONS CONSTRUCTION JOINT
	TYPES AND LOCATIONS SHALL BE AS APPROVED BY THE ENGINEER.
10.	WHERE HORIZONTAL CONSTRUCTION JOINTS, LOCATED ABOVE THE FOUNDATION SLAB EXTEND BEYOND
	EQUIPMENT SUPPORTS, ANCHORAGES, OPENINGS, RECESSES AND REVEALS NOT SHOWN ON THE
1	STRUCTURAL DRAWINGS BUT REQUIRED BY OTHER CONTRACT DOCUMENTS, SHALL BE PROVIDED FOR
1.	
1.	
1. 2.	WHERE DRILLED EPOXY DOWELS ARE PLACED INTO HARDENED CONCRETE, ADJUST THE DOWEL
1. 2.	PRIOR TO PLACING CONCRETE. WHERE DRILLED EPOXY DOWELS ARE PLACED INTO HARDENED CONCRETE, ADJUST THE DOWEL LOCATIONS AS NEEDED TO AVOID DRILLING THROUGH ANY REINFORCING BARS, IF THE DOWEL LOCATION NEEDS TO BE MODIFIED. CONTACT THE ENGINEER BEFORE PROCEEDING
11. 12. 13.	PRIOR TO PLACING CONCRETE. WHERE DRILLED EPOXY DOWELS ARE PLACED INTO HARDENED CONCRETE, ADJUST THE DOWEL LOCATIONS AS NEEDED TO AVOID DRILLING THROUGH ANY REINFORCING BARS, IF THE DOWEL LOCATION NEEDS TO BE MODIFIED, CONTACT THE ENGINEER BEFORE PROCEEDING. DOWELS, ANCHOR BOLTS, PIPES, AND OTHER EMBEDDED ITEMS SHALL BE HELD SECURELY IN POSITION
11. 12. 13.	PRIOR TO PLACING CONCRETE. WHERE DRILLED EPOXY DOWELS ARE PLACED INTO HARDENED CONCRETE, ADJUST THE DOWEL LOCATIONS AS NEEDED TO AVOID DRILLING THROUGH ANY REINFORCING BARS, IF THE DOWEL LOCATION NEEDS TO BE MODIFIED, CONTACT THE ENGINEER BEFORE PROCEEDING. DOWELS, ANCHOR BOLTS, PIPES, AND OTHER EMBEDDED ITEMS SHALL BE HELD SECURELY IN POSITION WHILE CONCRETE IS BEING PLACED.
11. 12. 13. 14.	PRIOR TO PLACING CONCRETE. WHERE DRILLED EPOXY DOWELS ARE PLACED INTO HARDENED CONCRETE, ADJUST THE DOWEL LOCATIONS AS NEEDED TO AVOID DRILLING THROUGH ANY REINFORCING BARS, IF THE DOWEL LOCATION NEEDS TO BE MODIFIED, CONTACT THE ENGINEER BEFORE PROCEEDING. DOWELS, ANCHOR BOLTS, PIPES, AND OTHER EMBEDDED ITEMS SHALL BE HELD SECURELY IN POSITION WHILE CONCRETE IS BEING PLACED. REINFORCING BARS AND ACCESSORIES SHALL NOT BE IN CONTACT WITH ANY METAL PIPE, PIPE FLANGE, METAL CONDUIT OT OTHER METAL BARTS EMPEDDED IN CONCRETE A MINIMUM OF FADANCE OF A MINIMUM.
11. 12. 13. 14.	PRIOR TO PLACING CONCRETE. WHERE DRILLED EPOXY DOWELS ARE PLACED INTO HARDENED CONCRETE, ADJUST THE DOWEL LOCATIONS AS NEEDED TO AVOID DRILLING THROUGH ANY REINFORCING BARS, IF THE DOWEL LOCATION NEEDS TO BE MODIFIED, CONTACT THE ENGINEER BEFORE PROCEEDING. DOWELS, ANCHOR BOLTS, PIPES, AND OTHER EMBEDDED ITEMS SHALL BE HELD SECURELY IN POSITION WHILE CONCRETE IS BEING PLACED. REINFORCING BARS AND ACCESSORIES SHALL NOT BE IN CONTACT WITH ANY METAL PIPE, PIPE FLANGE, METAL CONDUIT OT OTHER METAL PARTS EMBEDDED IN CONCRETE A MINIMUM CLEARANCE OF 2 INCHES SHALL BE PROVIDED.
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<ol> <li>11.</li> <li>12.</li> <li>13.</li> <li>14.</li> <li>15.</li> </ol>	PRIOR TO PLACING CONCRETE. WHERE DRILLED EPOXY DOWELS ARE PLACED INTO HARDENED CONCRETE, ADJUST THE DOWEL LOCATIONS AS NEEDED TO AVOID DRILLING THROUGH ANY REINFORCING BARS, IF THE DOWEL LOCATION NEEDS TO BE MODIFIED, CONTACT THE ENGINEER BEFORE PROCEEDING. DOWELS, ANCHOR BOLTS, PIPES, AND OTHER EMBEDDED ITEMS SHALL BE HELD SECURELY IN POSITION WHILE CONCRETE IS BEING PLACED. REINFORCING BARS AND ACCESSORIES SHALL NOT BE IN CONTACT WITH ANY METAL PIPE, PIPE FLANGE, METAL CONDUIT OT OTHER METAL PARTS EMBEDDED IN CONCRETE A MINIMUM CLEARANCE OF 2 INCHES SHALL BE PROVIDED. CONTRACTOR SHALL PROVIDE 3/4 INCH CHAMFER USING WOOD CHAMFER STRIPS ON ALL EXPOSED CORNERS OF COLUMNS, BEAMS, EQUIPMENT PADS AND WALLS OR AS REQUIRED TO MATCH EXISTING.
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CONCRETE MASONRY	UNITS	(CMU)	<u>) NOT</u>

DETAIL, FABRICATE, AND ERECT STRUCTURAL STEEL IN ACCORDANCE WITH AISC SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, LATEST EDITION. STRUCTURAL STEEL SHALL CONFORM TO THE REQUIREMENTS OF THE FOLLOWING:

4

- a. CHANNELS, ANGLES, M, S-SHAPES: ASTM A36
- b. PLATE AND BAR: ASTM A36, UNLESS OTHERWISE NOTED
- c. COLD-FORMED HOLLOW STRUCTURAL SECTIONS: ASTM A500, GRADE B, STRUCTURAL TUBING

d. WELDING ELECTRODES: COMPLY WITH AWS REQUIREMENTS ALL CONNECTIONS, UNLESS OTHERWISE NOTED, SHALL BE MADE WITH ASTM A325 OR A490 HIGH STRENGTH BOLTS. BOLT DIAMETER SHALL BE 7/8" UNLESS OTHER SIZES ARE SHOWN OR ARE NECESSARY AND APPROVED. WEB REINFORCEMENT PLATES SHALL BE USED ON BEAMS, GIRDERS AND COLUMNS AS REQUIRED BY AUTHORITY'S STRUCTURAL DESIGN GUIDELINES AND/OR STANDARD DETAILING PRACTICE.

PROVIDE TYPICAL STEEL BEAM CONNECTIONS FOR A CAPACITY OF NOT LESS THAN THE TOTAL UNIFORM LOAD CAPACITY TABULATED IN THE AISC TABLES FOR ALLOWABLE LOAD OF BEAMS.

DO NOT PAINT STEEL SURFACES WHICH ARE TO BE WELDED OR ENCASED IN CONCRETE.

ALL GROOVE AND BUTT WELDS SHALL BE FULL PENETRATION UON. FILLET WELD SIZES SHALL BE MINIMUM SIZE REQUIRED BY AISC CODE FOR PLATE SIZES TO BE CONNECTED BUT NOT LESS THAN 3/16 INCH AND SHALL BE APPLIED TO THE ENTIRE JOINT LENGTH UON.

WHENEVER ONE MEMBER IS FASTENED TO ANOTHER WITH FASTENINGS (BOLTS, WELDS, ETC.) SET AT A MINIMUM OF TWO FASTENINGS PER PIECE CONNECTED AND THE FIRST AND LAST FASTENINGS SHALL BE LOCATED NOT TO EXCEED 1/4 SPACE EACH END.

SHOP DRAWINGS SHALL INCLUDE ALL SHOP AND ERECTION DETAILS INCLUDING CUTS COPES, CONNECTIONS, HOLES, BOLTS AND WELDS IN THE STRUCTURAL STEEL.

COPES, BLOCKS & RE-ENTRANT CUTS SHALL HAVE 1" MINIMUM RADIUS FILLETS. THE ENDS OF BEAMS AND COLUMNS IN BEARING SHALL BE MILLED. ALL STEEL MEMBERS ENCASED IN CONCRETE SHALL HAVE CLIPS OR WIRE MESH

WRAPPING IN CONFORMANCE WITH THE SPECIFICATIONS. EXISTING CORRODED STRUCTURAL STEEL AFFECTED BY THE NEW CONSTRUCTION OR AS INDICATED IN THE CONTRACT DRAWINGS SHALL BE REPAIRED OR REPLACED AS DIRECTED BY THE ENGINEER AND PAINTED AS PER SPECIFICATIONS. SUBMIT SHOP DRAWINGS INDICATING THE METHOD AND DETAILS OF REPAIRING OR REPLACING CORRODED STEEL FOR THE ENGINEER'S APPROVAL.

EXISTING RIVETS THAT INTERFERE WITH THE NEW CONSTRUCTION SHALL BE REMOVED AND REPLACED WITH THE SAME SIZE HIGH STRENGTH BOLTS. WHERE EXISTING HOLES ARE TO BE USED IN THE INSTALLATION OF NEW WORK THEIR LOCATIONS AND SPACING SHALL BE FIELD VERIFIED BEFORE FABRICATION OF NEW STEEL WORK. THE EXISTING HOLES SHALL BE REAMED IF NECESSARY TO WITHIN A.I.S.C. GUIDELINES. IF UNUSED HOLES ARE VISIBLE THEY SHALL BE FILLED WITH H.S. BOLTS. WHERE THESE BOLTS IN UNUSED HOLES COULD CAUSE INTERFERENCE PROBLEMS, SUCH HOLES SHALL BE PLUG WELDED AND GROUND SMOOTH.

- STRUCTURES" AND "SPECIFICATIONS FOR MASONRY STRUCTURES".
- 2. OWNER.
- 4.
- ALL MASONRY SHALL BE CONSTRUCTED IN RUNNING BOND. 5.
- NO. 9 GAGE SIDE RODS) SPACED VERTICALLY AS INDICATED. DO NOT USE CALCIUM CHLORIDE OR ANY ADDITIVE THAT CONTAINS CALCIUM
- CHLORIDE IN THE MORTAR OR GROUT.
- CRACKS THAT MAY DEVELOP DURING CONSTRUCTION.
- STABILIZE THE WALL.
- 10. 11. ARE PROVIDED AT THE BOTTTOM OF ALL CELLS TO BE FILLED.
- 13. SHALL BE BACKPAINTED WITH BITUMINOUS PAINT.

### **EXCAVATION:**

- 2. CRUSHED NYSDOT NO. 1 AND NO. 2 CRUSHED STONE.
- 3. AND GIVE DIRECTION.
- 4. FRAMING.
- AND SECTIONS CLEARLY INDICATING THE SYSTEMS TO BE USED.
- CONTRACTOR TO COORDINATE DEMOLITION NEW WORK PHASING EXISTING BUILDING TO THE EXTENTS SHOWN.

TEEL:

### TES:

DESIGN AND CONSTRUCTION OF ALL MASONRY WORK SHALL CONFORM TO ACI 530 AND 530.1 STANDARDS, "BUILDING CODE REQUIREMENTS FOR MASONRY

CONCRETE MASONRY UNITS SHALL BE NORMAL WEIGHT HOLLOW LOAD BEARING UNITS CONFORMING TO ASTM C90 " HOLLOW LOAD-BEARING CONCRETE MASONRY UNITS", LATEST EDITION. COMPRESSIVE STRENGTH OF MASONRY SHALL NOT BE LESS THAN 2000 PSI. COLOR AND FINISH AS INDICATED, SUBJECT TO APPROVAL BY

MORTAR SHALL CONFORM TO ASTM C270 "MORTAR FOR UNIT MASONRY" TYPES. GROUT SHALL CONFORM TO ASTM C476 "GROUT FOR REINFORCED AND NON-REINFORCED MASONRY", WITH A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI IN 28 DAYS. ALL REINFORCED CELLS SHALL BE FILLED SOLID WITH GROUT.

HORIZONTAL JOINT REINFORCING SHALL BE STANDARD WEIGHT LADDER TYPE (2-

CONTRACTOR IS RESPONSIBLE TO REPAIR ANY BRICK FRACTURE OR MORTAR

TEMPORARY BRACE ALL MASONRY WALLS TO PROVIDE STABILITY DURING

CONSTRUCTION UNTIL THE DESIGNED STRUCTURE IS COMPLETE AND CAN

NO PREMIXED MASONRY CEMENT MORTARS SHALL BE PERMITTED. MAXIMUM HEIGHT OF GROUT POUR SHALL BE 4'-0" UNLESS CLEANOUT OPENINGS

12. ALL LINTEL BEAMS SHALL HAVE A MINIMUM END BEARING OF 8" OR 1" PER FOOT OF CLEAR SPAN, WHICHEVER IS LARGER WITH 2000 PSI MINIMUM GROUT FILL. ALL MEMBERS AND SUPPORTS IN DIRECT CONTACT WITH CONCRETE OR MASONRY

PROVIDE POSITIVE DRAINAGE FOR ALL TRENCHES DURING CONSTRUCTION. DO NOT ALLOW ANY PONDING WATER DURING CONSTRUCTION. ALL SLABS-ON-GROUND SHALL BEAR ON A BASE COARSE OF CLEAN. COMPACTED

STONE A MINIMUM OF 6" THICK. THE CRUSHED STONE SHALL BE A 50:50 MIX OF

CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO DEMOLITION AND NOTIFY ARCHHITECT/ENGINEER IMMEDIATELY OF ANY DISCRIPANCIES AND CONFLICTS BETWEEN EXISTING CONSTRUCTION AND IMFORMATION SHOWN ON THE CONTRACT DRAWINGS. ARCHITECT/ENGINEER WILL INSPECT CONDITIONS

DO NOT PERFORM ANY DEMOLITION AND REMOVALS OF EXISTING BUILDING STRUCTURES UNTIL ALL FINISHES ARE REMOVED TO EXPOSE STRUCTURAL

IT IS THE CONTRACTOR'S RESPOSIBILITY TO PROVIDE TEMPORARY SHORING AND BRACING AS NECESSARY TO FACILITATE THE WORK SHOWN. SUBMIT FOR REVIEW A TEMPORARY SHORING AND BRACING DESIGN, INCLUDING CALCULATIONS STAMPED BY A STRUCTURAL ENGINEER REGISTERED IN NEW YORK STATE. PLANS

REMOVE EXISTING FLOOR SLAB ON GROUND AND EXISTING SUBGRADE WITHIN

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DES	SIGN CRITERIA		ABBRE	EVIATIONS
	DESIGN IS IN ACCORDANCE WITH AND CONSTRUCTIO WITH THE PROVISIONS OF THE 2020 NEW YORK STAT LOAD INFORMATION:	N SHALL COMPLY E BUILDING CODE.	@ A	AT ARCHITECTURAL
Ē	LIVE LOADS: ADMIN BUILDING FLOOR: ADMIN BUILDING ROOF:	100 PSF 50 PSF	AB ADDL ALT ALUM ANCH	ANCHOR BOLT ADDITIONAL ALTERNATE ALUMINUM ANCHOR
	ROOF SNOW LOAD: GROUND SNOW LOAD: FLAT-ROOF SNOW LOAD: SNOW LOAD IMPORTANCE FACTOR: THERMAL FACTOR: ADMIN BUILDING: DRIFT SURCHARGE LOAD(S):	Pg = 30 PSF Pf = 20.79 PSF Is = 1.1 C = 1.0 NA	APPROX BAL BET BL BLDG BLK	APPROXIMATE BALANCE BETWEEN BUILDING LINE BUILDING BLOCK
_	SEISMIC DESIGN DATA: SEISMIC IMPORTANCE FACTOR: RISK CATEGORY: MAPPED SPECTRAL RESPONSE ACCELERATIONS:	1.25 III Ss=0.236	BM BOT BRG C	BEAM BOTTOM BEARING CHANNEL STRUCTURAI
	SITE CLASS: SPECTRAL RESPONSE COEFFICIENTS:	S1=0.057 D Sds=0.252 Sd1=0.092	C/C CANT'L CJ CL	SHAPE CENTER TO CENTER CANTILEVER CONSTRUCTION JOINT
	SEISMIC DESIGN CATEGORY: WIND DESIGN DATA: BASIC DESIGN WIND SPEED: RISK CATEGORY: WIND EXPOSURE:	B 120MPH III C	CL CMU COL COMP CONC CONN CONST CONT CSTG CTR	CONCRETE MASONRY UNIT COLUMN COMPRESSIBLE CONCRETE CONNECTION CONSTRUCTION CONSTRUCTION CONTINUOUS CASTING CENTER
_			DET DIA DIAG DIM DL DN DO DWL	DETAIL DIAMETER DIAGONAL DIMENSION DEAD LOAD DOWN DITTO DOWEL
			EA EF EJ EL ELEC EMB ENCL EQ EQUIP ES EW T&B EXIST EXP EXT	EACH EACH FACE EXPANSION JOINT ELEVATION ELECTRICAL EMBEDMENT ENCLOSURE EQUAL EQUIPMENT EACH SIDE EACH WAY TOP&BOTTOM EXISTING EXPANSION EXTERIOR
_			FB FD FDN FF FIN FL FTG	FLOOR BEAM FLOOR DRAIN FOUNDATION FAR FACE FINISH FLOOR FOOTING
i			GA GALV GB GR GRTG	GAUGE GALVANIZE GRADE BEAM GRADE GRATING
			H HORIZ HP HT	HIGH HORIZONTAL HIGH POINT HEIGHT
-			HS HVAC ID IF INV JT	HIGH STRENGTH HEATING, VENTILATING & AIR CONDITIONING INSIDE DIAMETER INSIDE FACE INVERT JOINT
			КО	KNOCKOUT
A			L LG LL LLH	ANGLE (STRUCTURAL SHAPE) LONG LIVE LOAD LONG LEG HORIZONTAI

LOC LP LW	LOCATION LOW POINT LONG WAY	L L L
MAS MAX MECH MEZZ MFR	MASONRY MAXIMUM MECHANICAL MEZZANINE MANUFACTURE, MANUFACTURER	M M M M
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OC OD OF OPNG OPP	ON CENTER OUTSIDE DIAMETER OUTSIDE FACE OPENING OPPOSITE	0 0 0 0
PC PCO PL PSF PVC	PRECAST CONCRETE PILE CUT OFF PLATE POUNDS PER SQUARE FOOT POLYVINYL CHLORIDE	P P P P
R RAD RD REINF REQD RM RO	RISER RADIUS ROOF DRAIN REINFORCEMENT REQUIRED ROOM ROUGH OPENING	R R R R R R
SECT SHT SIM SL SP SPA SPEC SQ SST STD	SECTION SHEET SIMILAR SLAB SPIRAL SPACING SPECIFICATION SQUARE STAINLESS STEEL STANDARD	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
STIR STL STRUCT SW T&B T/ T THK TOC TYP	STIRRUP STEEL STRUCTURAL SHORT WAY TOP AND BOTTOM TOP OF TREAD THICK TOP OF CONCRETE TYPICAL	T T T T T T T
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NTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS RIOR TO FABRICATION. ONTRACTOR SHALL REMOVE EMBEDDED STEEL CLIP NGLES BY SAWCUTTING ONLY. BURNING/ PLASMA	LEGAL ENTITY: ARCADIS OF NEW YORK, INC.
DITING SHALL NOT BE PERMITTED. ONTRACTOR SHALL LEAVE 1" AROUND PERIMETER OF	CONSULTANTS
TEEL FRAME FOR GROUT INFILL. TEEL CHANNELS SHALL BE MITERED AND FULLY WELDED.	
RESTRESSED STRAILS IN EXISTING CONCRETE TEE'S RIOR TO ANCHOR INSTALLATION FOR STEEL FRAME AND /AC DUCT HANGERS.	
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![](_page_25_Figure_0.jpeg)

![](_page_25_Figure_3.jpeg)

REINFORCEMENT LAP SPLICE, DEVELOPMENT LENGTH AND STANDARD HOOKS											
	MIN LAP LENGTHS FOR MIN DEVELOPMENT LENGTHS					MIN STD. HOOKS FOR PRIMARY REINFORCEME					EMENT
BAR SIZE	CL	ASS B	(STRAIG	GHT BAR) Id	STD	90° 135°		180°		INSIDE	
	TOP*	OTHERS	TOP*	OTHERS	HOOKS	A OR G	A OR G	Н	A OR G	J	DIA, D
#3	24	19	18	14	7	6	4	2 1/2	5	3	2 1/4
#4	32	24	24	18	9	8	4 1/2	3	6	4	3
#5	39	30	30	23	12	10	5 1/2	3 3/4	7	5	3 3/4
#6	46	36	35	27	14	12	8	4 1/2	8	6	4 1/2
#7	67	52	51	40	16	14	9	5 1/2	10	7	5 1/4
#8	77	59	59	45	18	16	10 1/2	6	11	8	6
#9	86	67	66	51	21	19	-	-	15	11 3/4	9 1/2
#10	97	75	74	57	23	22	-	-	17	13 1/4	10 3/4
#11	107	84	82	64	26	24	-	-	19	14 3/4	12

1. REINFORCEMENT LAP SPLICE, DEVELOPEMENT LENGHT AND STANDARD HOOK TABLE ON AMINIMUM CONCRETE COMPRESSIVE STRENGTH OF 4500 PSI AND 60,000 PSI REINFORCEMENT (WITH NO EPOXY COATING).

2. ALL LAPS SPLICES SHALL BE CLASS B SPLICES. . \* TOP BARS ARE DEFINED AS ALL HORIZONTAL BARS WITH 12 INCHES OR MORE FRESH CONCRETE BENEATH. 4. WHERE SPLICES ARE REQUIRED BETWEEN BARS OF DIFFERENT SIZES, THE LAP LENGTH SHALL BE NO LESS THAN THE DEVELOPMENT LENGTH OF THE LARGER BAR OR THE LAP LENGTH OF THE SMALLER BAR, WHICHEVER GREATER.

# REINFORCING SPLICE AND EMBEDMENT LENGTH TABLE (4500 PSI)

NOT TO SCALE

![](_page_25_Figure_9.jpeg)

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(1)

6	ARCADIS
	LEGAL ENTITY: ARCADIS OF NEW YORK, INC.
	CONSULTANTS
YDRAULIC EPOXY RESIN	
O O O O O O O O O O O O O O O O O O O	SEALS
2" MIN. OR AS REQUIRED TO GET TO SOUND CONCRETE (TYP.) FOR CRACKS WIDER THAN 1/8" CUT CONCRETE AS SHOWN AND PATCH.	ORANGE COUNTY, NEW YORK
NON STRUCTURAL CRACK REPAIR - TYPE 2	CITY OF NEWBURGH
TYPICAL CONCRETE REPAIRS	TREATMENT PLANT (WWTP) ADMIN BUILDING RENOVATION
	BID NUMBER 7.24 ARCADIS PROJ. NO. 30183827
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COMPACTED BUY SELECT GRANULAR EN SS FILL SSS	NO. DATE ISSUED FOR BY
	COPYRIGHT: ARCADIS OF NEW YORK, 2014 INC.
	DATE: SEPTEMBER 2024 PROJECT NO.: 30183827
	FILE NAME:       DESIGNED BY:       JD       DRAWN BY:     GF
SOIL AS APPROVED IN WRITING BY THE GEOTECHNICAL ENGINEER. ED DETAILS FOR SLAB REINF REQUIREMENTS. FOR UNDERSLAB MATERIAL REQUIREMENTS.	CHECKED BY: CJ SHEET TITLE
SE AT LIQUID CONTAINMENT STRUCTURES.	STRUCTURAL
3 ON GROUND DETAIL	TYPICAL DETAILS I
	SCALE:
	As indicated S-52
	SHEET OF

![](_page_26_Figure_0.jpeg)

		2 /IATIONS	3	4 CODES PERMITS AND INSPECTIONS	5
	HVAC				
ACH	AIR CHANGES PER HOUR	SR SUPPLY REGISTER	Μ	AND SUB-CODES OF NEW YORK STATE, AND OTHER AUTHORITIES EXERCISING JURISDICTION OF THE WORK OF THIS PROJECT.	PENETRATION. THIS WORK SHALL BE PROVIDED CONTRACT.
AD AFF AFR	ACCESS DOOR ABOVE FINISHED FLOOR ABOVE FINISHED ROOF	SSSTAINLESS STEELTABTESTING, ADJUSTING AND BALANCINGTODTOP OF DUCT	MOTORIZED DAMPER (ELECTRIC)	2. ANY PORTION OF WORK WHICH IS NOT SUBJECT TO THE APPROVAL OF AN AUTHORITY HAVING JURISDICTION SHALL BE PROVIDED IN ACCORDANCE WITH NATIONAL FIRE PROTECTION ASSOCIATION (NEPA)	11. PROVIDE PIPE SLEEVES AND MECHANICAL SEAL CONCRETE OR MASONRY CONSTRUCTION INCLI STRUCTURES EXCEPT WHERE OTHERWISE NOT
E AL ADJ	ALUMINUM ADJUSTABLE	TSP     TOTAL STATIC PRESSURE       TYP     TYPICAL	GBD GRAVITY BACKDRAFT DAMPER	3. THE CONTRACTOR SHALL BE LICENSED IN THE LOCAL JURISDICTION PRIOR TO BIDDING THE PROJECT. CONTRACTOR TO CONTACT CITY/TOWNSHIP TO VERIFY UPDATED	12. ALL DUCT DIMENSIONS ARE CLEAR DIMENSIONS BE TO THE OUTSIDE OF DUCT. WHERE INTERNA
AMB APPROX		WC WATER COLUMN / WATER CLOSET		<ol> <li>CONTRACTOR SHALL FILE AND OBTAIN ALL PERMITS REQUIRED FOR THE WORK.</li> </ol>	13. VOLUME DAMPERS SHOWN OR DESCRIBED ON 7
ATC AUTO BDD	AUTOMATIC TEMPERATURE CONTROL AUTOMATIC BACKDRAFT DAMPER	WB WET BULB W/ WITH	FD (#) FIRE DAMPER W/ ACCESS DOOR (#) DESIGNATES FIRE WALL RATING	<ul><li>REFERENCE NOTE 7 ON SHEET G-02.</li><li>5. INSPECTIONS SHALL VERIFY THE INSTALLED HVAC SYSTEM FOR THE CORRECT TYPE</li></ul>	WITH REGISTERS.         14.       FIRST FIGURE OF DUCT SIZE INDICATES DIMENS
BHP BLDG	BRAKE HORSE POWER BUILDING	EQUIPMENT		AND SIZE, CONTROLS, INSULATION, MINIMUM EFFICIENCY AS REQUIRED BY THE CODE, APPROVED PLANS AND SPECIFICATIONS.	15. HEATING AND COOLING SYSTEM DESIGN LOADS IN ACCORDANCE WITH ANSI/ASHRAE/ACCA STAI
BOD BOG	BOTTOM OF DUCT BOTTOM OF GRILLE	ACCU AIR COOLED CONDENSING UNIT		6. MANUFACTURER'S INSTALLATION INSTRUCTIONS SHALL BE AVAILABLE ON THE JOB SITE AT THE TIME OF INSPECTION.	16. REFER TO CODE COMPLIANCE DRAWINGS UNDE REQUIRED UNDER THIS CONTRACT.
BOT EL BOU BTU/HB	BOTTOM ELEVATION BOTTOM OF UNIT BRITISH THERMAL UNITS PER HOUR	CUH CABINET UNIT HEATER RTU PACKAGED ROOFTOP AIR HANDLING UNIT		OBSERVATION WALKTHROUGH AND SUBMIT A PUNCHLIST REPORT LISTING ALL FIELD WORK MISSED OR NOT IN COMPLIANCE WITH SCOPE OF WORK. CONTRACTOR IS BESPONSIBLE FOR COMPLETING ALL WORK LISTED IN THE PUNCHLIST REPORT	MECHAN
BTUH BC	BRITISH THERMAL UNITS PER HOUR BACKWARD CURVED	EF EXHAUST FAN QUANTITY DESIGNATION	ONE WAY BLOW SUPPLY DIFFUSER	8. CONTRACTOR SHALL PROVIDE THE OWNER WITH ALL NECESSARY OPERATION AND MAINTENANCE MANUALS, SHOP DRAWINGS, WIRING DIAGRAMS AND WARRANTY	1. ALL DUCTWORK SHALL COMPLY WITH ALL REQUERTEXIBLE, LATEST EDITION. REFER TO SPECIFIC
BAS CFM	BUILDING AUTOMATION SYSTEM CUBIC FEET OF AIR PER MINUTE		NEW DUCTWORK/EQUIPMENT	PAPERWORK UPON COMPLETION OF PROJECT.	2. DUCTS AND PIPING SHALL BE THERMALLY INSUL CODE OF NYS. REFER TO SPECIFICATION SECTI
COND D CONN	CONDENSATE CONNECTION	(EXHAUST FAN)	HIDDEN DUCTWORK/EQUIPMENT		3. DUCTS AND PIPING FINAL EXACT ROUTING TO B EXISTING ELECTRICAL EQUIPMENT. WHEN ROUT IT SHALL BE 6 FEET OR MORE ABOVE ELECTRIC
CONT		LOUVER FACE SIZE	DESIGN HEATING AND	1. ALL INSTALLATION AND WORK SHALL BE PERFORMED IN A NEAT, WORKMAN-LIKE MANNER SO AS NOT TO DAMAGE ANY SURFACES, EQUIPMENT, OR MATERIALS.	4. OUTSIDE AIR INTAKE OPENING LOCATIONS AND
DIA DN	DIAMETER	24X24 CDA CEILING DIFFUSER TYPE (TYPE A	OUTDOOR AMBIENT DESIGN CONDITIONS:	2. BEFORE PROCEEDING WITH ANY WORK IN OCCUPIED OR USED AREAS, THE CONTRACTOR SHALL APPLY TO THE OWNER OF BUILDING FACILITY ENGINEERS FOR PERMISSION TO ENTER SUCH AREAS. THE CONTRACTOR IS OBLIGED TO PERFORM HIS	COMPLY WITH 2020 NYSMC 401.4. 5. EXHAUST AIR DISCHARGE LOCATIONS AND MINI
DWG DX	DRAWING DIRECT EXPANSION	MISCELLANEOUS SYMBOLS	WEATHER STATION: NEW YORK STEWARD, NY, USA; CLIMATE ZONE: 5A RTU-1; ACCU-1: SUMMER: DB 90.2 °F; WB 72.2 °F	WORK ONLY AT THE TIME OR TIMES DESIGNATED BY THE OWNER OR BUILDING FACILITY ENGINEERS. THERE WILL BE NO ADDITIONAL COMPENSATION FOR THE WORK PERFORMED AFTER HOURS OR ON OFF-DAYS WITHOUT PRIOR WRITTEN APPROVAL.	<ul> <li>COMPLY WITH 2020 NYSMC 501.3.</li> <li>6. SMOKE DUCT DETECTORS SHALL BE INSTALLED UPOT DETECTORS SH</li></ul>
DB EFF EC	DRY BULB EFFICIENCY ELECTRONICALLY CONMUTATED	T THERMOSTAT/TEMPERATURE SENSOR	(0.4% COOLING); WINTER: DB 3.5 °F (99.6% HEATING); RTU-2: SUMMER: DB 80.2 °F; WB 75 °F (0.4%	3. THE CONTRACTOR SHALL REPAIR WALLS, CEILING, FLOORS, ETC., THAT ARE REQUIRED TO BE PENETRATED, OR OTHERWISE DISTURBED. THE REPAIRS SHALL BE WITH MATERIALS AND FINISHES TO MATCH EXISTING, FIRE WALL DENETRATIONS SHALL BE	7 DUCTS PENETRATIONS AND AD TRANSFER OF
E EA EA	EXISTING EACH/ EXHAUST AIR ENTERING AIR TEMPERATURE	EXISTING TO DEMOLISH WORK INTERFACE	DEHUMIDIFICATION); WINTER: DB 0°F INTERIOR DESIGN CONDITIONS: SUMMER: DB 75 °F; 50 RH; WINTER: 70 °F	SEALED WITH SUITABLE MATERIALS TO PRESERVE FIRE WALL FENETRATIONS SHALL BE SEALED WITH SUITABLE MATERIALS TO PRESERVE FIRE WALL INTEGRITY. THIS WORK SHALL BE PROVIDED UNDER THE GENERAL CONTRACT AND COORDINATED UNDER THE HVAC CONTRACT.	REQUIREMENTS FOR SMOKE, FIRE OR COMBINA 607.
EAT EF EG/EAG	EXHAUST FAN EXHAUST GRILLE	EXISTING TO NEW WORK INTERFACE	2020 ENERGY CONSERVATION	4. THE CONTRACTOR SHALL COORDINATE WITH THE ARCHITECT FOR ANY MISCELLANEOUS FINISH REPAIRS CAUSED BY MECHANICAL WORK.	8. APPROVED FLEXIBLE CONNECTIONS SHALL BE F EQUIPMENT.
EL ER ESP	ELEVATION EXHAUST REGISTER EXTERNAL STATIC PRESSURE		CODE OF NYS COMPLIANCE STATEMENT	5. EXISTING ROOF SHALL BE PROTECTED DURING CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING AND SEALING ANY WORK ON AND/OR THROUGH THE BOOF	9. ALL EQUIPMENT, DUCTWORK AND PIPING SHALL STRUCTURE ABOVE BY THE INSTALLATION OF A LOCATIONS OF PRESTRESSED STRAINS IN EXIS
EQUIP EXH	EQUIPMENT EXHAUST		TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT, THE PLANS AND SPECIFICATIONS LINDER THIS CONTRACT ARE	<ol> <li>THE CONTRACTOR SHALL LOCATE EQUIPMENT WHICH MUST BE SERVICED, OPERATED OR MAINTAINED IN FULLY ACCESSIBLE POSITIONS. FURNISH ACCESS DOORS AS</li> </ol>	10. DUCT COLLARS AND PIPE ESCUTCHEONS SHAL CEILINGS.
C EXIST FC EPI	EXISTING FORWARD CURVED		IN COMPLIANCE WITH THE 2020 ENERGY CONSERVATION CODE OF NYS.	REQUIRED FOR BETTER ACCESSIBILITY. MINOR DEVIATIONS FROM DRAWINGS MAY BE MADE TO ALLOW FOR ACCESSIBILITY, BUT CHANGES OF MAGNITUDE WHICH INVOLVE EXTRA COSTS SHALL NOT BE MADE WITHOUT WRITTEN APPROVAL.	11. ALL PIPING, DUCTWORK PENETRATING ALL WAL DUCTWORK PENETRATING FIRE RATED WALLS
FD FLR	FIRE DAMPER FLOOR		SCOPE OF WORK	7. CONTRACTOR SHALL BE RESPONSIBLE FOR THE FAILURE OF ANY DUCTWORK SYSTEM OR EQUIPMENT TO FUNCTION PROPERLY UPON COMPLETION OF HIS WORK UPON SAID	CONTRACTOR TO PROVIDE ACCESSIBLE DOOR           12.         PROVIDE ACCESS PANELS WHETHER INDICATE
GBD HP	GRAVITY BACKDRAFT DAMPER HORSEPOWER		SPSCOPE OF WORK INCLUDES: A) INSTALLATION OF A NEW CENTRAL HVAC SYSTEM CONSISTING OF A CONSTANT	8. PATCH EXISTING PENETRATIONS THROUGH WALLS AND FLOORS THAT RESULTED	EQUIPMENT FURNISHED UNDER THIS CONTRAC TYPE TO MAINTAIN FIRE RATING OF STRUCTUR
HVAC HSPF	HEATING, VENTILATION & AIR CONDITIONING HEATING SEASONAL PERFORMANCE SECTOR	DUCT SECTION, SUPPLY	VOLUME ROOFTOP PACKAGED HEAT PUMP UNIT FOR ADMINISTRATIVE SPACES AND A 100% OUTSIDE AIR ROOFTOP PACKAGED AIR	SHALL BE PROVIDED UNDER THE GENERAL CONTRACT AND COORDINATED UNDER THE HVAC CONTRACT.	
HGRH — KW	HOT GAS RE-HEAT KILOWATT		INCLUDING DUCTWORK, AND RELATED EQUIPMENT, ACCESSORIES AND AUXILIARIES	GENERAL NOTES	RECOMMENDATIONS. MAINTAIN CLEARANCES F AND CONTROL. FURNISH AND INSTALL REQUIRE CONFLICTS WITH INSTALLATION AND MANUFAC
LAT MAX	LEAVING AIR TEMPERATURE MAXIMUM		B) INSTALLATION OF A DX SPLIT SYSTEM FOR	1. NOT ALL ABBREVIATIONS, LINE TYPES, OR SYMBOLS MAY APPEAR ON THESE CONTRACT DOCUMENTS.	15. A PERMANENT FACTORY-APPLIED NAMEPLATE( LETTERING, THE MANUFACTURER'S NAME OR T
MBH MCA	THOUSAND BTUH MINIMUM CIRCUIT AMPACITY	CHANGE OF ELEVATION RISE (R),	ROOMS.	2. DRAWINGS SHALL BE CONSIDERED DIAGRAMMATIC AND ARE INTENDED TO CONVEY THE SCOPE OF WORK AND INDICATE THE EQUIPMENT'S GENERAL ARRANGEMENT CAPACITY, SIZE AND APPROXIMATE LOCATION. DRAWINGS SHALL NOT BE SCALED OR	OF THE APPROVED AGENCY. IN ADDITION, LABE 16. ELECTRICAL WIRING, CONTROLS AND CONNEC
MD MERV MER	MOTORIZED DAMPER MINIMUM EFFICIENCY REPORTING VALUE MECHANICAL EQUIPMENT ROOM		LABORATORY HOOD AND GENERAL EXHAUST FAN SERVING LABORATORY.	MANIPULATED. WHILE THE DRAWINGS ARE GENERALLY TO SCALE AND ARE AS ACCURATE AS THE SCALE WILL PERMIT, DIMENSIONS SHALL BE CONFIRMED IN THE FIELD.	NFPA 70. 17. MOTOR OPERATED EQUIPMENT SHALL BE ISOL
MECH B <sub>MIN</sub>	MECHANICAL MINIMUM		D) INSTALLATION OF WALL CABINET UNIT HEATER IN MAIN ENTRANCE.	3. THE SITE, LOCATION, AND ROUTING OF SYSTEMS INDICATED TO HAVE NEW CONNECTIONS MADE TO THEM ARE SHOWN AS ACCURATELY AS FIELD CONDITIONS PERMIT ACCORDING TO THE BEST INFORMATION AVAILABLE AT THE TIME OF THE	VIBRATION ISOLATORS. 18. THE CONTRACTOR IS RESPONSIBLE FOR TESTI
MFR MOP	MANUFACTURER MAX OVERCURRENT PROTECTION		E) INSTALLATION OF BUILDING AUTOMATION SYSTEM (BAS), LOCAL CONTROLLERS AND DEVICES FOR INSTALLED HVAC EQUIPMENT	PREPARATION OF THESE PLANS. CONTRACTOR SHALL VISIT THE SITE AND THOROUGHLY EXAMINE THE CONTRACT DRAWINGS. ALL EXISTING CONDITIONS SHALL BE EXAMINED AND THEIR EXACT LOCATIONS VERIFIED. THE CONTRACTOR SHALL	INDICATED IN THE MECHANICAL DRAWINGS. RE REQUIRED SUBMITTALS AND GENERAL EXECUT
MTD NA	MOUNTED NOT APPLICABLE	DUCT ELBOW DOWN. SUPPLY SHOWN	PART OF THIS CONTRACT.	REPORT, IN WRITING, TO THE ENGINEER ANY CONDITIONS WHICH MAY PRESENT A CONFLICT AND/OR COORDINATION ISSUE WITH INSTALLATION OF REQUIRED EQUIPMENT. THE ENGINEER WILL ISSUE WRITTEN INSTRUCTIONS IF WARRANTED. NO	<ol> <li>19. THERMOSTATS SHALL BE LOCATED 4' 10" ABOV</li> <li>20. MECHANICAL CONTRACTOR SHALL PROVIDE CONTRACTOR</li></ol>
NK NO	NECK NORMALLY OPEN NORMALLY CLOSED			CONSIDERATION OR ALLOWANCE WILL BE GRANTED FOR FAILURE TO INVESTIGATE CONDITIONS OR MISUNDERSTANDINGS OF THE CONTRACTUAL REQUIREMENTS. IT IS THE INTENT OF THIS CONTRACT THAT THE CONTRACTOR BE RESPONSIBLE TO MAKE	CONTRACTOR SHALL CARRY ALL FEES FOR NET ALL CONTROL ACTUATORS, DAMPERS, SENSOF
NFA NTS	NET FREE AREA NOT TO SCALE			ANY AND ALL ADJUSTMENTS IN CONSTRUCTION NECESSARY TO SUIT EXISTING DIMENSIONS OR ELEVATIONS , AT NO CHANGE IN CONTRACT PRICE, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.	INSTALLATION. INSTALL IN RIGID STEEL CONDU REQUIREMENTS.
оем ОА	ORIGINAL EQUIPMENT MANUFACTURER OUTSIDE AIR	$ \begin{array}{c} \downarrow \\ \downarrow $		4. ANY DISCREPANCIES OR ERRORS IN CONTRACT DOCUMENTS (DRAWINGS AND SPECIFICATIONS) SHALL BE REPORTED TO THE ENGINEER OF RECORD	21. THERMOSTATS SHALL BE LOCATED 4' 10" ABOV
OAI OPNG	OUTSIDE AIR INTAKE OPENING			PROMPTLY. NO CHANGES IN THE CONTRACT DOCUMENTS ARE PERMISSIBLE WITHOUT THE CONCENT OF THE ENGINEER OF RECORD.	AUTOMATION SYSTEM (BAS) AS SHOWN ON CO CONTRACTOR SHALL CARRY ALL FEES FOR NET ALL CONTROL ACTUATORS, DAMPERS, SENSOR
PD PS-1 PC	PRESSURE DROP PRESSURE SENSOR			ELECTRICAL, ARCHITECTURAL AND STRUCTURAL, PLUMBING, ETC. PROVIDE NECESSARY OFFSETS IN PIPING, DUCTWORK AND FITTINGS ETC., REQUIRED TO PROPERLY INSTALL WORK WITHOUT INTERFERENCES.	CONTROL WIRING FOR PROJECT. ALL LOW VOL INSTALLATION. INSTALL IN RIGID STEEL CONDU REQUIREMENTS.
RM RR	ROOM RETURN REGISTER	RETURN REGISTER		6. THE MANUFACTURERS AND MODEL NUMBERS LISTED ON THE SCHEDULES AND DETAILS ARE THE BASIS OF DESIGN FOR THIS PROJECT.	23. CONDENSATE PIPING SHALL MAINTAIN A HORIZ EIGHTH UNIT VERTICAL IN 12 UNITS HORIZONT
A RO RL	ROOF OPENING REFRIGERANT LIQUID	FOUR WAY BLOW SUPPLY LX1 DIFFUSER / REGISTER		7. ELECTRICAL POWER PROVISIONS FOR MECHANICAL EQUIPMENT ARE BASED ON BASIS OF DESIGN EQUIPMENT AS INDICATED IN MECHANICAL SCHEDULES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING FLECTRICAL BATINGS FROM CERTIFIED SHOP	24. CONDENSATE DRAINS SHALL BE TRAPPED AS F MINI-SPLIT FOUIPMENT SHALL BE PROVIDED WI
RFS SCAV	RECOMMENDED FUSE SIZE SUPPLY CONSTANT AIR VOLUME	THREE WAY BLOW SUPPLY DIFFUSER / REGISTER		DRAWINGS OF EQUIPMENT AND SHALL COORDINATE WITH ELECTRICAL CONTRACTOR FOR REQUIRED OVERCURRENT PROTECTION REQUIREMENTS.	2020 NYSPC 134.2.4 25. ALL CONDENSATE PIPING SHALL BE INSULATED
SCH SG SH	SCHEDULE SUPPLY GRILLE SHOWER HEAD			8. EQUIPMENT SIZES AND LOCATIONS ARE APPROXIMATE. ACTUAL DIMENSIONS TO BE DETERMINED BY EQUIPMENT FURNISHED.	26. REFRIGERANT PIPING CROSSING AN OPEN SPA INCHES (2210 MM) ABOVE THE FLOOR UNLESS
SEER SCR	SEASONAL ENERGY EFFICIENCY RATIO SILICON CONTROLLED RECTIFIER			<ol> <li>FINAL SIZES OF FLOOR OPENINGS, WALL OPENINGS, ROOF OPENINGS, DUCT PLENUMS, DUCT TRANSITIONS AND PIPING CONNECTIONS TO EQUIPMENT SHALL BE DETERMINED BY EQUIPMENT FURNISHED.</li> </ol>	NYSMC 1107.2
		DUCTWORK WITH INTERNAL			

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6 INERAL NOTES	ARCADIS
EXISTING FLOORS, WALLS, OR SLABS, CORE DRILL OR SAW CUT NDER THE GENERAL CONTRACT AND COORDINATED UNDER THE HVAC	LEGAL ENTITY: ARCADIS OF NEW YORK, INC.
FOR ALL PIPING AND CONTAINMENT CONDUIT PENETRATIONS THRU DING BUT NOT LIMITED TO WALLS, FLOORS, ROOFS, PADS,UNDERGROUND D.	CONSULTANTS
O INSIDE OF DUCT. DIMENSIONS TO DUCTS FROM FLOOR OR WALL SHALL NSULATION IS REQUIRED, THE DUCT SIZE SHALL BE INCREASED TO GIVE	
E DRAWINGS ARE IN ADDITION TO OPPOSED BLADE DAMPERS PROVIDED	
N OF FACE SHOWN OR INDICATED.	
OR THE PURPOSE OF SIZING SYSTEMS AND EQUIPMENT WAS DETERMINED ARD 183. CALCULATION REPORTS ARE AVAILABLE UPON REQUEST. GENERAL DRAWING CATEGORY FOR ADDITIONAL DESIGN INFORMATION	
CAL REQUIREMENTS	SEALS
EMENTS OF THE SMACNA – DUCT CONSTRUCTION STANDARDS, METAL & TION 23 31 13 FOR CONTINUATION.	- STATE OF NEW LOSS
TED AS PER C403.11.1 AND C403.11.3 OF 2020 ENERGY CONSERVATION IS 23 07 13 AND 23 07 19 FOR INSULATION TYPE AND THICKNESS.	
DETERMINED BY FIELD CONDITIONS. AVOID PIPING ROUTING ABOVE IG OF ANY PIPE/DUCT ABOVE ELECTRICAL EQUIPMENT IS UNAVOIDABLE, EQUIPMENT BE PROVIDED WITH PROTECTION BY CONTRACTOR TO FROM CONDENSATION, LEAKS, OR BREAKS IN SUCH SYSTEMS.	107868 EN 8/30/2024
INIMUM DISTANCES FROM NEARBY OPENINGS AND STRUCTURES SHALL	ORANGE COUNY, NEW YORK
JM DISTANCES FROM NEARBY OPENINGS AND STRUCTURES SHALL	CITY OF NEWBURGH
I RETURN AIR SYSTEMS WITH A DESIGN CAPACITY OVER 2000 CFM JTDOOR AIR CONNECTIONS AND DECONTAMINATION EQUIPMENT AS PER	
NGS IN FIRE- RESISTANCE RATED ASSEMBLIES SHALL MEET ON DAMPERS RATINGS, LOCATIONS AND ACCESS AS PER 2020 NYSMC	
OVIDED AT DUCT AND PIPING CONNECTIONS TO MOTOR OPERATED	WASTEWATER TREATMENT PLANT
E SUPPORTED IN AN APPROVED MANNER FROM THE BUILDING PROVED HANGERS / SUPPORTS. CONTRACTOR SHALL VERIFY NG CONCRETE TEE'S PRIOR TO ANCHOR INSTALLATION FOR STEEL CIFICATION SECTION 23 05 29 FOR CONTINUATION.	(WWTP) ADMIN BUILDING RENOVATION
E PROVIDED AT ALL EXPOSED PENETRATIONS OF FLOOR, WALLS AND	
6, CEILINGS, FLOORS, ROOFS, ETC. SHALL BE FIRE STOPPED. ALL ALL BE EQUIPPED WITH FIRE DAMPER RATED HIGHER THAN WALL. I"x24" MINIMUM UNLESS NOTED) ADJACENT TO FIRE DAMPER.	BID NUMBER 7.24 ARCADIS PROJ. NO. 30183827
OR NOT FOR ACCESS TO CONCEALED VALVES, DAMPERS, OR OTHER WHERE NO OTHER MEANS OF ACCESS IS PROVIDED. PANEL SHALL BE OF ND SIZED FOR CLEAR SERVICE ACCESS.	
IS SUPPORTS SHALL BE GALVANIZED STEEL OR PLATED, INCLUDING ESS NOTED OTHERWISE.	
RDANCE WITH MANUFACTURERS INSTALLATION INSTRUCTIONS AND CLEARANCE ACCESS TO MAINTAIN AND SERVICE EQUIPMENT, VALVES AUXILIARY ITEMS TO PROVIDE A COMPLETE INSTALLATION. ANY RER RECOMMENDATIONS SHALL BE REPORTED TO ENGINEER.	
SHALL BE AFFIXED TO APPLIANCES ON WHICH SHALL APPEAR IN LEGIBLE DEMARK, THE MODEL NUMBER, SERIAL NUMBER AND THE SEAL OR MARK SHALL INCLUDE THE INFORMATION REQUIRED AS PER 2020 NYSMC 301.9.	NO. DATE ISSUED FOR BY
INS TO EQUIPMENT AND APPLIANCES SHALL BE IN ACCORDANCE WITH	COPYRIGHT: ARCADIS OF NEW YORK, 2014 INC.
ED FROM THE BUILDING STRUCTURE BY THE INSTALLATION OF APPROVED	DATE: SEPTEMBER 2024
, ADJUSTING AND BALANCING (TAB) ALL MECHANICAL EQUIPMENT R TO SPECIFICATION SECTION 23 05 93 FOR REFERENCE STANDARDS, N REQUIREMENTS.	PROJECT NO.: <u>30183827</u> FILE NAME:
INISHED FLOOR, UNLESS OTHERWISE INDICATED.	DESIGNED BY: A. DSOLA
FROLS FOR ALL NEW HVAC EQUIPMENT AND TIE INTO NEW BUILDING TRUCTION DRAWINGS AND SPECIFICATIONS . THE MECHANICAL	DRAWN BY: L. BANGARU
CONTROLS IN THEIR BID. THE MECHANICAL CONTRACTOR SHALL INSTALL ETC. MECHANICAL CONTRACTOR SHALL PROVIDE ALL LOW VOLTAGE GE WIRING TO BE INSTALLED IN EMT CONDUIT FOR INDOOR FOR ANY EXTERIOR CONDUIT. SEE ELECTRICAL SPECIFICATIONS FOR	SHEET TITLE
	HVAC
TROLS FOR ALL NEW HVAC EQUIPMENT AND TIE INTO NEW BUILDING TRUCTION DRAWINGS AND SPECIFICATIONS. THE MECHANICAL CONTROLS IN THEIR BID. THE MECHANICAL CONTRACTOR SHALL INSTALL ETC. MECHANICAL CONTRACTOR SHALL PROVIDE ALL LOW VOLTAGE GE WIRING TO BE INSTALLED IN EMT CONDUIT FOR INDOOR FOR ANY EXTERIOR CONDUIT. SEE ELECTRICAL SPECIFICATIONS FOR	ABBREVIATIONS, LEGEND AND NOTES
TAL SLOPE IN THE DIRECTION OF DISCHARGE OF NOT LESS THAN ONE- 1-PERCENT SLOPE) AND SHALL BE CONFIGURED TO PERMIT THE - MAINTENANCE WITHOUT REQUIRING THE DRAIN LINE TO BE CUT.	
QUIRED BY THE EQUIPMENT OR APPLIANCE MANUFACTURER. DUCTLESS AN IN-LINE CHECK VALVE LOCATED IN THE DRAIN LINE OR TRAP AS PER	
THAT AFFORDS PASSAGEWAY SHALL BE NOT LESS THAN 7 FEFT 3	SCALE: NOT TO SCALE
E PIPING IS LOCATED AGAINST THE CEILING OF SUCH SPACE AS PER 2020	H-1
	SHEET OF51

![](_page_28_Figure_0.jpeg)

	1. CONTRACTOR SHALL WITH CONTRACT DR. BEEN THOROUGHLY ALLOWANCE WILL BE	VISIT THE PREMISES TO DETER AWINGS AND SPECIFICATIONS. C EXAMINED PRIOR TO THE SUBMI MADE FOR FAILURE TO COMPLY	MINE EXISTING CONDITIONS AND C ONTRACTOR IS TO ENSURE ALL CO SSION OF A BID PROPOSAL FOR DE WITH THESE REQUIREMENTS AND	OMPARE SAME ONDITIONS HAVE MOLITION. NO A BID		REMOVE EXIS PIPING CONN REMOVAL RE WITH FEDERA
			HAS DONE SO.			EXISTING FRE
	2. ANY EXISTING EQUIP INTERFERES WITH TI	HE NEW CONSTRUCTION IS TO B	E REMOVED BY CONTRACTOR AT N	O ADDITIONAL	3	EXISTING EXH
	3. CONTRACTOR, PRIO BEING REMOVED TO	R TO THE REMOVAL AND DEMOLI DETERMINE IF THE OWNER WOU	TION WORK IS TO INFORM OWNER JLD LIKE TO TAKE POSSESSION OF	OF THE ITEMS T.		REMOVE EXIS CONTROL. TE UNTIL INSTAL
	4. SHOULD ANY QUEST SHOULD BE REMOVE WRITING. CLARIFICA	ION ARISE AS TO WHETHER OR N D, OR REMAIN AS PRESENTLY IN TION FROM THE ARCHITECT ENG	NOT ANY PIPING, EQUIPMENT OR OT STALLED, THE CONTRACTOR SHALI NINEER.	THER ITEM _ REQUEST, IN		REMOVE OUT AND SEAL RO H-53. ALL ROO
	5. ANY DEMOLITION OF CONTROLS AND CON ACCESSORIES AND F	EXISTING EQUIPMENT SHALL IN ITROL WIRING, SUPPORTS, DUCT PARTS AND ELECTRICAL POWER	CLUDE THE REMOVAL OF THEIR REL WORK, PIPING, ALL CORRESPONDI SUPPLY.	ATED NG		EXISTING EXH CONTINUATIO
	6. REMOVAL SHALL INC LOCATION INDICATEI	LUDE TAKING FROM THE PREMIS D THE OWNER OR BUILDING. UNL	ES AND DISPOSAL OF REMOVED IT ESS OTHERWISE NOTED	EMS TO THE		REMOVE EXIS WIRING, AND REMOVE EXIS
	7. CONTRACTOR SHALL	CAP ALL REMAINING DUCTS, AT	ALL POINTS OF DISCONNECTION. A	IRTIGHT.	$\checkmark$	CONTROL WII FIELD.
	8. DEMOLITION AND OT PERFORMED AT THE DELIVERY, HANDLING AVOID ANY INCONVE CONTROLLED TO PRI BURNING MUST BE P MAINTENANCE ENGIN	HER WORK WHICH CREATES DIF TIME AND MANNER DIRECTED B AND INSTALLING OF MATERIALS NIENCE AND ANNOYANCE TO TH EVENT DIRT AND FROM INFILTRA ERFORMED ONLY DURING TIMES NEERS	T AND/OR DISTURBING NOISE MUS Y THE OWNER OR BUILDING FACILIT S, EQUIPMENT AND DEBRIS MUST AI E BUILDING AND OPERATION. CLEA TING INTO ADJACENT AREAS. WELL SPECIFICALLY APPROVED BY THE	T BE TY. THE RRANGED TO NING MUST BE DING OR FACILITIES AND		
	DEMOLITION.	TOPENINGS SHALL BE COVERE				
	1					
	2					
<b>ADA ROOM</b> 107A	3					
	4		EF-7			
NFERENCE ROOM	5				EF-16	
	6					4
<b>ICE B</b> 06						

B

A

C

SCALE: 3/16" = 1'-0"

**ROOF LEVEL** 

D

E

F

PLAN NORTH

4

GENERAL DEMOLITION NOTES

3

ISTING AIR-COOLED CONDENSING UNIT AND ASSOCIATED SUPPORTS, NECTIONS, CONTROLS, AND ELECTRICAL CONNECTIONS. PRIOR TO ECLAIM ALL REFRIGERANT AND PROPERLY DISPOSE OF IT IN ACCORDANCE RAL, STATE, LOCAL, AND EPA REGULATIONS.

RESH AIR INTAKE: REFER TO ARCHITECTURAL / ELECTRICAL PLANS.

SHEET NOTES

(HAUST FAN TO REMAIN. PROTECT FAN DURING CONSTRUCTION.

ISTING ROOFTOP FAN AND ASSOCIATED CONDUIT, POWER WIRING, AND EMPORARILY CAP EXISTING SUPPORT CURB AND SEAL WEATHERTIGHT ILLATION OF NEW EXHAUST FAN. SEE NEW WORK FOR CONTINUATION.

TSIDE INTAKE AIR HOOD. CAP EXISTING SUPPORT CURB AND FLASH OOF WEATHERTIGHT TO MATCH EXISTING. REFER TO DETAIL #7 IN SHEET OOFWORK SHALL MAINTAIN EXISTING WARRANTY.

KHAUST AIR HOOD ON ROOF TO REMAIN. SEE NEW WORK FOR ON.

ISTING DUCTWORK, FANS, ASSOCIATED SUPPORTS, CONDUIT, POWER D CONTROLS ENTIRELY.

ISTING HVAC SYSTEM'S CONTROL DEVICES, ASSOCIATED CONDUITS, IRING THROUGHOUT THE FACILITY. CONTRACTOR TO VERIFY IN THE

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ARC	AL ENTITY: ADIS OF NE	W YORK, INC.									
CON	ISULTANTS										
SEA	LS	OF NEW									
	TS * LICENSED	INTRO O'SOLA INTRO	)/2024								
	ORANG	E COUNY, NEW YORK									
	WAS TREAT	STEWATER	Г								
(WWTP) ADMIN BUILDING RENOVATION											
BID ARC	NUMBER 7.2 CADIS PROJ.	24 NO. 30183827	1								
BID	NUMBER 7.2 CADIS PROJ.	24 NO. 30183827									
BID	NUMBER 7.2 CADIS PROJ.	24 NO. 30183827									
BID	NUMBER 7.2 CADIS PROJ.	24 NO. 30183827									
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		1		DIFFUSER,	GRILLE /	AND REGI	2 STER SC	HEDULE					3						4					5	
MARK NO	0. L	OCATION	TY	PE	SIZE (IN) (V	/XH) AIR	FLOW	DEFLECTION	1	MFR	MODE	EL N	IOTES												
EG-1	RESTROM 1	05A	LOUVERED	RETURN	6X6	(C	70	O°	AN	IEMOSTAT	35		1, 2												
EG-1	UNISEX 103,	LOCKER RM 105	LOUVERED	RETURN	6X6		50	0°	AN	IEMOSTAT	35		1, 2												
RG-1	HALL 101B	17			24X12		760	0°			35		1,2												
E SD-1	LOCKER RM	105	ARCHIT DIF	FUSER	12X12		90		AN	IEMOSTAT	33		1, 2												
SG-1	CONF RM 10	17	DOUBLE DEFLEC	TION GRILLE	10X6		200	0°	AN	IEMOSTAT	20		1, 2												
SG-2	LAB 102		DOUBLE DEFLEC	TION GRILLE	14X6	;	270	22.5°	AN	IEMOSTAT	20		1, 2												
SG-3		6			12X6		<u>240</u> 250	22.5°			20		1,2												
SG-4	UNISEX 103		DOUBLE DEFLEC	TION GRILLE	8X4		25	0°	AN	IEMOSTAT	20		1, 2												
SG-4	RESTRM 105	5A	DOUBLE DEFLEC	TION GRILLE	8X4		35	0°	AN	IEMOSTAT	20		1, 2												
SG-6	LOBBY 101		DOUBLE DEFLEC	TION GRILLE	8X6		125	0°	AN	IEMOSTAT	20		1, 2												
SG-6	HALL 101B	A 101A			8X6		125	45°			20		1,2												
NOTES:	TIALL TOTO		DOUBLE DEI LEO					43			20		<u>Ι, Ζ</u>												
1. INSTAL	LL PER MFR INS	TRUCTIONS																							
2. SPECI	IFICATION SECTI	ON 23 31 13																							
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D MARK N	10. L	OCATION		-	TYPE		H	EAT CAPACIT	Y (MBH)	AMPS	KW V	FA! PH/HZCF	N TEMP RIS M (°F)	E THROW (FT)	MOUN	TING HEIGH (AFF)	T WEIG	iHT )	MFR	MODEL	NOTES				
CUH-1	VESTIBULE		FAN-F	ORCED WALL H	IEATER, SUF	FACE MOU	NTED	5.1		7.2	1.5 20	8/1/60 16	0 30	13'7"		8" MIN	20	STE	EELPRO AW	/FA1508C24	1-6			REERIC	
NOTES:		TRUCTIONS	0			SAFETY			F								ςτατ								
2. REFER	R TO SPECIFICAT	FION SECTION 23 8	32 39.43 4	. BUILT-IN DISC	CONNECT, A	JTOMATIC F	AN DELAY.		6	. CORDINATE	E FINAL COLO	R SELECTION	WITH ARCHIT	ECT.	7. DAGNI		51A1.						REFR REFP	GERANT: R-410 GERANT CONC	)A CENTRATION
																							(NYSM	IC 1103.1, TABL	.E 1103.1; AN
																							REF.	SYSTEMS WITH	MORE THAN
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	1O.	LOCATION			SERVICE			TYPE		DRIVE	AIRFLOW	ESP	FAN SPEE	)	MOTO	OR DATA		WEIGHT	MF	R	MODEL	NOTES	SYSTEM	PRE-CHAF (LBS)	RGED
FF-1	BOOF	200/1101			KEB BOOM!	SEXHAUST			VNBI AST	TYPE DIBECT	(CFM) 185	(IN WG)	(RPM) 1346	1/4	BHP 0.07	1725	V/PH/HZ	(LB) 43	GREEN	HECK	G-097-VG	1-6	ACCU-1	68	
EF-2	CHEMICAL	STORAGE ROOM		LAB 102				IN-LINE		DIRECT	125	0.75	1563	1/4	0.11	1725	115/60/1	62	GREEN	HECK	SQ-97-VG	1-2, 6-9,	13		
EF-3	UPPER ROO	OF		LAB 102 HOC	OD EXHAUS	Г		CENTRIFUG/	AL.	DIRECT	475	1.00	1705	1/2	0.37	1725	208/60/3	5.96	PLASTEC VE	NTILATION	P20ST4P03	3 6, 10-12,	13 NOTE	(NON-INSTITI	UTIONAL OC
NOTES:							6 FLO				ESPOND TO S	VSTEM'S TER			TES	10 BOC				ΕΝΕ ΜΕΔΤΗΕ			NYSN	C 1104.4.1 NON	
2. SWITC	CH, NEMA-1, TOG	GLE; JUNCTION B	OX MOUNTED & W	IRED.	BALANGING.		INDIC	CATED IN SHE	ET H-51. F	INAL UNIT SI	ELECTION SH		FOR FOR SY	STEM	1123	11. PRC			E STACK, NOZ	ZLE, BACK DF	RAFT DAMPER	AND	VOLU	IE OF THE SMA	ALLEST, ENC
3. BARON	METRIC DAMPER	R, GRAVITY OPERA	TED, NOT COATE	)			DUC	T LEAKAGE AI	ND SYSTE	M BALANCED	ACCORDING	LY TO MEET C	ESIGN SPACE	AIR FLOWS.		COL	PLINGS FOF	R COMPLE	TE INSTALLAT	ION OF FAN A	ASSEMBLY.				
C 4. BIRDS	SCREEN: STAINLE	ESS STEEL.					7. COA		DUSTRIAL	EPOXY, LIGH	IT GRAY (EXC	EPT WHEEL);	COMPOSITE V	HEEL MATER	RIAL	12. PRC				AND CONTR	OLS.		SYST	.M ROOM	
5. STANL	DARD CURB CAP	' SIZE - 19 SQUARE					8. INLE									13. PRC MAN	VIDE VIBRA UFACTUREI	TOR ISOLA R	TORS AS RE	COMMMENDE	) BY		ACCL	-1 SCADA Room	<u>ו</u>
							9. DAN			NE, GRAVIT	IOFENATED														
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		LOCATION	LOCATION	TYPE	CHARGE	(LBS) C	OOLING (	COOLING CC	NSIBLE OOLING E	AT DB/WB	EFF		HEATING COP @ 47°F	AIR FLOW		IYPE				BS)	MFGR	MODEL	V/PH		V
						CA	(MBH)	(MBH) (	MBH)	(°F)	SEER (	(MBH)	(HSPF)	(CFM)				MCA	MOP					MCA BES	MOCP
									75	75.6/60.9	20.0	13.0	9.8	417 F	LOOR-STA								12AA 000/020/1	22.1 25	25
AC-1	ACCU-1	SCADA 107A	ROOF	R-410A	6.8		12.0	9.2	8.3	75 6/60 9	20.0	14.4	9.8	448	W		E (EXPOSED	D) NA	NA	33 TRANE 26 TBANE	/MITSUBISHI	NIXEKS12A11 MSZ-EE12NA	3-111 208/230/1		
AC-1 AC-2 NOTES:	ACCU-1	SCADA 107A ELEC. ROOM 105B	ROOF ROOF	R-410A R-410A	6.8	· · · · ·	12.0 12.0	9.2	8.3	75.6/60.9	20.0	14.4	9.8	448	N	ALL MOUN	e (exposei Ted	D) NA NA	NA NA	33 TRANE 26 TRANE	/MITSUBISHI /MITSUBISHI	NIXFKS12A1 MSZ-EF12NA	B-U1	I	
AC-1 AC-2 NOTES: 1. DISCO		SCADA 107A ELEC. ROOM 105B ED UNDER ELECTI	ROOF ROOF RICAL WORK.	R-410A R-410A 3. WIRELESS F			12.0 12.0	9.2 9.2 CONTROL IN	8.3	75.6/60.9 FOR BAS CO	20.0	14.4 5. ř			TIES ARE B		E (EXPOSED	D) NA NA EAT OF 7	NA NA 0°F (DB), OUT	33 TRANE 26 TRANE DOOR OF 43°I	/MITSUBISHI /MITSUBISHI = (WB).	NTXFKS12A1 MSZ-EF12NAI 7. INSTA			S FOR SUPP
AC-1 AC-2 NOTES: 1. DISCO 2. INDOO B	ACCU-1	SCADA 107A ELEC. ROOM 105B ED UNDER ELECTI ERED FROM OUTDO	ROOF ROOF RICAL WORK. OOR UNIT.	R-410A R-410A 3. WIRELESS F 4. DRAIN PAN S	REMOTE CO SENSOR SS	NTROLLERS 610, WIRED	12.0 12.0 3. PROVIDE TO SHUTD	9.2 9.2 E CONTROL IN OWN UNIT FC	8.3 TERFACE DR HIGH C	75.6/60.9 FOR BAS CO ONDENSATE	20.0 NNECTION.	14.4 5. ľ 6. ř	9.8 NOMINAL HEA <sup>-</sup> NOMINAL COO	448 FING CAPACI LING CAPACI	TIES ARE B	ALL MOUN BASED ON IN BASED ON IN	E (EXPOSED TED IDOOR COIL IDOOR COIL	D) NA NA EAT OF 7 EAT OF 8	NA NA 0°F (DB), OUT 0/67°F (DB/WE	33 TRANE 26 TRANE DOOR OF 43°f 3), OUTDOOR	/MITSUBISHI /MITSUBISHI - (WB). OF 95°F (DB).	NTXFKS12A1 MSZ-EF12NA 7. INSTA 8. COND	ENSATE PUMP BLUE I	ER ROOF RAILS	S FOR SUPPO MINI CONDE
AC-1 AC-2 NOTES: 1. DISCO 2. INDOO B	ACCU-1	SCADA 107A ELEC. ROOM 105B ED UNDER ELECTI ERED FROM OUTDO	ROOF ROOF RICAL WORK. OOR UNIT.	R-410A R-410A 3. WIRELESS F 4. DRAIN PAN	REMOTE CO SENSOR SS	3 NTROLLERS 610, WIRED	12.0     12.0     3. PROVIDE     TO SHUTD	9.2 9.2 E CONTROL IN OWN UNIT FC	8.3 TERFACE OR HIGH C	75.6/60.9 FOR BAS CO ONDENSATE	20.0 NNECTION.	14.4 5. I 6. I		448 TING CAPACI LING CAPACI	TIES ARE B	ALL MOUN BASED ON IN BASED ON IN	E (EXPOSED	D) NA NA EAT OF 7 EAT OF 8	NA NA 0°F (DB), OUT 0/67°F (DB/WE	33 TRANE 26 TRANE DOOR OF 43°f 3), OUTDOOR	/MITSUBISHI /MITSUBISHI F (WB). OF 95°F (DB).	NTXFKS12A1 MSZ-EF12NA 7. INSTA 8. COND	B-U1 208/230/1 ILL OUTDOOR UNIT OV ENSATE PUMP BLUE I	ER ROOF RAIL	S FOR SUPPO MINI CONDE
AC-1 AC-2 NOTES: 1. DISCO 2. INDOO B	ACCU-1	SCADA 107A ELEC. ROOM 105B ED UNDER ELECTI ERED FROM OUTDO	ROOF ROOF RICAL WORK. OOR UNIT.	R-410A R-410A 3. WIRELESS F 4. DRAIN PAN	EMOTE CC SENSOR SS	3 NTROLLERS 610, WIRED	12.0 12.0 3. PROVIDE TO SHUTD	9.2 9.2 E CONTROL IN DOWN UNIT FC	TERFACE	75.6/60.9 FOR BAS CO ONDENSATE	20.0 NNECTION.	14.4 5.   6.   <b>P</b>	9.8 NOMINAL HEA <sup>-</sup> NOMINAL COO ACKAGED F	448 FING CAPACI LING CAPACI	TIES ARE B TIES ARE E AIR HAN	ASED ON IN BASED ON IN BASED ON IN DLING UN	E (EXPOSED TED IDOOR COIL IDOOR COIL	D) NA NA EAT OF 7 EAT OF 8 DULE	NA NA 0°F (DB), OUT 0/67°F (DB/WE	33 TRANE 26 TRANE 2000R OF 43°f 3), OUTDOOR	/MITSUBISHI /MITSUBISHI F (WB). OF 95°F (DB).	NTXFKS12A1 MSZ-EF12NA 7. INSTA 8. COND		ER ROOF RAIL( MAMOND (ADV)	S FOR SUPPO
AC-1 AC-2 NOTES: 1. DISCO 2. INDOO B	ACCU-1	SCADA 107A ELEC. ROOM 105B ED UNDER ELECTI ERED FROM OUTDO	ROOF ROOF RICAL WORK. OOR UNIT.	R-410A R-410A 3. WIRELESS F 4. DRAIN PAN 4. DRAIN PAN COOLING DA	6.{		12.0 12.0 3. PROVIDE TO SHUTD HI	9.2 9.2 E CONTROL IN OWN UNIT FC	1.5 8.3 TERFACE PR HIGH C	75.6/60.9 FOR BAS CO ONDENSATE //P)	20.0 INNECTION.	14.4 5.   6.   PA	9.8 NOMINAL HEA <sup>T</sup> NOMINAL COO ACKAGED F	448 FING CAPACI LING CAPACI	TIES ARE B TIES ARE E AIR HAN	ASED ON IN BASED ON IN BASED ON IN DLING UN SUPPLY FAN	E (EXPOSED TED IDOOR COIL IDOOR COIL IDOOR COIL	D) NA NA EAT OF 7 EAT OF 8 DULE	NA NA 0°F (DB), OUT 0/67°F (DB/WE	33 TRANE 26 TRANE DOOR OF 43°f 3), OUTDOOR	MITSUBISHI MITSUBISHI F (WB). OF 95°F (DB).	NTXFKS12A1 MSZ-EF12NAF 7. INSTA 8. COND FILTERS	B-U1 208/230/1	ER ROOF RAIL( )IAMOND (ADV)	S FOR SUPPO MINI CONDE
AC-1 AC-2 NOTES: 1. DISCO 2. INDOO B MARK L NO.	ACCU-1	SCADA 107A ELEC. ROOM 105B ED UNDER ELECTI ERED FROM OUTDO	ROOF ROOF RICAL WORK. OOR UNIT. NOMINAL TONNAGE	R-410A R-410A 3. WIRELESS F 4. DRAIN PAN COOLING DA FAL/ LE NET COIL SITIES ROW/F	REMOTE CC SENSOR SS	NTROLLER 610, WIRED LAT DB/WB	12.0 12.0 3. PROVIDE TO SHUTD HI MBIENT DB/WB (°F)	9.2 9.2 E CONTROL IN OWN UNIT FC EATING DATA JTPUT AMBIEN JBH) (°F)	TERFACE OR HIGH CO (HEAT PUN IT EAT L (°F) (	75.6/60.9 FOR BAS CO ONDENSATE //P) AT COP @ 47° F	20.0 NNECTION. HEATING	14.4 5.   6.   ₩ 3 DATA (OTHE ACITY OUTPUT (MRH)	9.8 NOMINAL HEA' NOMINAL COO ACKAGED F R) T TEMP. RISE DR	448 FING CAPACI LING CAPACI ROOFTOP	TIES ARE B TIES ARE E AIR HAN	ASED ON IN BASED O	E (EXPOSED TED IDOOR COIL IDOOR COIL IDOOR COIL IDATA ESP (IN QTY WG)	D) NA NA EAT OF 7 EAT OF 8 DULE	NA NA NA 0°F (DB), OUT 0/67°F (DB/WE 0/67°F (DB/WE BHP PER SPEEL	33 TRANE 26 TRANE 2000R OF 43°f 3), OUTDOOR 3), OUTDOOR CONDE	MITSUBISHI /MITSUBISHI F (WB). OF 95°F (DB). NSER	NTXFKS12A1 MSZ-EF12NA 7. INSTA 8. COND FILTERS ICKNESS ME (IN) RAT	B-U1 208/230/1 ALL OUTDOOR UNIT O' ENSATE PUMP BLUE COMPRESSOR RV ING QTY TYPE (/	FLA MCA MPS) (AMPS)	S FOR SUPPO MINI CONDE
AC-1 AC-2 NOTES: 1. DISCO 2. INDOO B MARK L NO.	ACCU-1	SCADA 107A ELEC. ROOM 105B ED UNDER ELECTI ERED FROM OUTDO	ROOF ROOF RICAL WORK. OOR UNIT. NOMINAL TONNAGE	R-410A R-410A 3. WIRELESS F 4. DRAIN PAN 4. DRAIN PAN COOLING DA FAL/ LE NET COIL COIL SITIES 3H)	A Constant of the second secon	NTROLLER® 610, WIRED LAT A DB/WB I (°F)	12.0 12.0 3. PROVIDE TO SHUTD H MBIENT DB/WB (°F) U (N	9.2 9.2 E CONTROL IN DOWN UNIT FC EATING DATA JTPUT AMBIEN (°F)	TERFACE OR HIGH CO (HEAT PUN (HEAT PUN IT EAT L (°F) (	75.6/60.9 FOR BAS CO ONDENSATE //P) AT COP @ 47° F (HSPF)	20.0 NNECTION. HEATING TYPE CAF	14.4 5.   6.   <b>P</b> 3 DATA (OTHE ACITY OUTPU (MBH)	9.8 NOMINAL HEA' NOMINAL COO ACKAGED F R) T TEMP. RISE DR (°F) FC CE	448 FING CAPACI LING CAPACI ROOFTOP	TIES ARE B TIES ARE E AIR HANI TOTAL AIRFLOW (CFM)	ASED ON IN BASED ON IN SUPPLY FAN OUTSIDE AIRFLOW (CFM)	E (EXPOSED TED IDOOR COIL IDOOR COIL IDOOR COIL IDATA ESP (IN QTY WG)	D) NA NA EAT OF 7 EAT OF 8 DULE	NA NA 0°F (DB), OUT 0/67°F (DB/WE 0/67°F (DB/WE BHP PER NOTO SPEEI IOTOR (RPM	33 TRANE 26 TRANE 2000R OF 43°f 3), OUTDOOR 3), OUTDOOR CONDE	MITSUBISHI MITSUBISHI (WB). OF 95°F (DB). NSER FAN DIA QTY.	NTXFKS12A1 MSZ-EF12NA 7. INSTA 8. COND FILTERS ICKNESS ME (IN) ME	B-U1 208/230/1 ALL OUTDOOR UNIT O' ENSATE PUMP BLUE COMPRESSOR RV ING QTY TYPE (/	FLA MCA MPS) (AMPS) (AMPS)	S FOR SUPPO MINI CONDE
AC-1 AC-2 NOTES: 1. DISCO 2. INDOO B MARK L NO.	ACCU-1	SCADA 107A ELEC. ROOM 105B ED UNDER ELECTI ERED FROM OUTDO	ROOF ROOF RICAL WORK. OOR UNIT. NOMINAL TONNAGE CAPA (M 4 44 75	R-410A R-410A 3. WIRELESS F 4. DRAIN PAN COOLING DA FAL/ iLE NET COIL COIL COIL SITIES SH) ' 35.14 3/16	<pre></pre>	NTROLLERS 610, WIRED LAT A DB/WB (°F) 52.63 /	12.0 12.0 3. PROVIDE TO SHUTD H MBIENT DB/WB (°F) 90.2 / 1	9.2 9.2 E CONTROL IN OWN UNIT FC IEATING DATA JTPUT AMBIEN (°F) 9.99 3.5	(HEAT PUN (HEAT PUN (°F) ( 60.2 7	75.6/60.9 FOR BAS CO ONDENSATE AT COP @ 2F) 47° F (HSPF) 2.4 8.2	20.0 INNECTION. HEATING TYPE CAF	14.4 5.   6.   3 DATA (OTHE ACITY OUTPU (MBH) KW 40.98	9.8 NOMINAL HEA NOMINAL COO ACKAGED I R) T TEMP. RISE DR (°F) FC CE / V 25.67	448 TING CAPACI LING CAPACI ROOFTOP IVE TYPE IVE TYPE IVE TYPE IVE TYPE IVE TYPE IVE TYPE	TIES ARE B TIES ARE E AIR HANI AIRFLOW (CFM)	ASED ON IN BASED ON IN SUPPLY FAN OUTSIDE AIRFLOW (CFM)	E (EXPOSED TED IDOOR COIL IDOOR COIL IDOOR COIL IDOOR COIL IDATA ESP (IN QTY NG) I	D) NA NA EAT OF 7 EAT OF 8 DULE HP PER MOTOR M	NA NA NA 0°F (DB), OUT 0/67°F (DB/WE 0/67°F (DB/WE NOTO PER NOTOR NOTO SPEEI (RPM 0.60 1016	33 TRANE 26 TRANE DOOR OF 43°f 3), OUTDOOR CONDE R FAN TYPE PROPELLE	MITSUBISHI MITSUBISHI F (WB). OF 95°F (DB). NSER FAN DIA QTY. R / 1	NTXFKS12A1 MSZ-EF12NAR 7. INSTA 8. COND FILTERS ICKNESS ME (IN) RAT	B-U1 208/230/1 ALL OUTDOOR UNIT O' PENSATE PUMP BLUE COMPRESSOR RV ING QTY TYPE (/ 3 1 SCROLL	ER ROOF RAIL: DIAMOND (ADV)	S FOR SUPPO MINI CONDE POWER MOP MF3 (AMPS) (AMF 30.0
AC-1 AC-2 NOTES: 1. DISCO 2. INDOO B MARK L NO.	ACCU-1	SCADA 107A ELEC. ROOM 105B ED UNDER ELECTI ERED FROM OUTDO ICE REFRIGERANT TYPE CE R-410A	ROOF ROOF RICAL WORK. DOR UNIT. NOMINAL TONNAGE A 4 44.75	R-410A R-410A 3. WIRELESS I 4. DRAIN PAN COOLING DA FAL/ SLE NET COIL COIL COIL SITIES SH) ' 35.14 3/16	<pre>6.8 REMOTE CC SENSOR SS</pre>	NTROLLER 610, WIRED LAT A DB/WB (°F) 52.63 / 51.28	12.0 12.0 3. PROVIDE TO SHUTD H MBIENT DB/WB (°F) 90.2 / 1 72.2	9.2 9.2 E CONTROL IN DOWN UNIT FC IEATING DATA JTPUT AMBIEN (°F) 9.99 3.5	7.5       8.3       TERFACE       PR HIGH CH       (HEAT PUIN)       IT     EAT       (°F)     (       60.2     7	75.6/60.9 FOR BAS CO ONDENSATE AT COP @ 2F) 47° F (HSPF) 2.4 8.2	20.0 INNECTION. HEATING TYPE CAF ELECTRIC 12	14.4 5.   6.   3 DATA (OTHE 'ACITY OUTPU' (MBH) 5 KW 40.98	9.8 NOMINAL HEA NOMINAL COO ACKAGED I R) T TEMP. RISE DR (°F) FC CE / V 25.67	448 TING CAPACI LING CAPACI ROOFTOP IVE TYPE IVE TYPE ENTRIFUGAL ARIABLE DIRECT	TIES ARE B TIES ARE E AIR HANI AIRFLOW (CFM) 1470	ASED ON IN BASED ON IN SUPPLY FAN OUTSIDE AIRFLOW (CFM) 230	E (EXPOSED TED IDOOR COIL IDOOR COIL IDOOR COIL IDOOR COIL IDATA ESP (IN QTY NG) I	D) NA NA EAT OF 7 EAT OF 8 DULE HP PER MOTOR M	NA       NA       NA       0°F (DB), OUT       0/67°F (DB/WE       0/67°F (DB/WE       BHP       PER       IOTOR       0.60       1016	33 TRANE 26 TRANE DOOR OF 43°f 3), OUTDOOR CONDE R FAN TYPE PROPELLEF DIRECT	MITSUBISHI MITSUBISHI F (WB). OF 95°F (DB). NSER FAN TH DIA QTY. R / 1	NTXFKS12A1 MSZ-EF12NA 7. INSTA 8. COND FILTERS ICKNESS ME (IN) RAT	B-U1 208/230/1 ALL OUTDOOR UNIT O' PENSATE PUMP BLUE COMPRESSOR RV QTY TYPE (, 3 1 SCROLL	ER ROOF RAIL: DIAMOND (ADV)	S FOR SUPPO MINI CONDE POWER MOP (AMPS) (AMF 30.0 -
AC-1 AC-2 NOTES: 1. DISCO 2. INDOO B MARK L NO.	ACCU-1	SCADA 107A ELEC. ROOM 105B ED UNDER ELECTI ERED FROM OUTDO	ROOF ROOF RICAL WORK. OOR UNIT. NOMINAL TONNAGE 4 44.75	R-410A R-410A 3. WIRELESS I 4. DRAIN PAN COOLING DA FAL/ ILE NET COIL CITIES 3H) / 35.14 3/16	<pre>6.8 REMOTE CC SENSOR SS \TA PI EAT DB/WB (°F) 74.7 / 62 </pre>	3 NTROLLER: 610, WIRED LAT A DB/WB (°F) 52.63 / 51.28	12.0         12.0         12.0         S. PROVIDE         TO SHUTD	9.2 9.2 E CONTROL IN DOWN UNIT FC IEATING DATA JTPUT AMBIEN (°F) 9.99 3.5	7.5       8.3       TERFACE       OR HIGH CI       (HEAT PUI)       IT EAT (°F) (       60.2	75.6/60.9 FOR BAS CO DNDENSATE //P) AT COP @ 47° F (HSPF) /2.4 8.2	20.0 INNECTION. HEATING TYPE CAF	14.4 5.   6.   <b>P</b> , 3 DATA (OTHE 'ACITY HEAT OUTPU' (MBH) 2 KW 40.98	9.8 NOMINAL HEA NOMINAL COO ACKAGED I R) T TEMP. RISE DR (°F) FC CE / V 25.67	448 FING CAPACI LING CAPACI ROOFTOP IVE TYPE IVE TYPE IVE TYPE ENTRIFUGAL ARIABLE DIRECT BC	TIES ARE B TIES ARE E AIR HAN TOTAL AIRFLOW (CFM) 1470	ASED ON IN BASED ON IN SUPPLY FAN OUTSIDE AIRFLOW (CFM) 230	E (EXPOSED TED IDOOR COIL IDOOR COIL IDOOR COIL IDATA ESP (IN WG) QTY I D.80 1	D) NA NA NA EAT OF 7 EAT OF 8 DULE HP PER MOTOR M 1	NA       NA       NA       0°F (DB), OUT       0/67°F (DB/WE       0/67°F (DB/WE       BHP       PER       IOTOR       0.60       1016	33 TRANE 26 TRANE DOOR OF 43°F 3), OUTDOOR CONDE R FAN TYPE PROPELLEF DIRECT	MITSUBISHI MITSUBISHI F (WB). OF 95°F (DB). NSER FAN TH DIA QTY. R / 1	NTXFKS12A1*         MSZ-EF12NAH         7. INSTA         8. COND         FILTERS         ICKNESS (IN)         2       13	B-U1 208/230/1 ALL OUTDOOR UNIT O' DENSATE PUMP BLUE COMPRESSOR RV ING QTY TYPE (, 3 1 SCROLL	ER ROOF RAIL: DIAMOND (ADV)	S FOR SUPPO MINI CONDE POWER MOP (AMPS) (AMF 30.0 -
AC-1 AC-2 NOTES: 1. DISCO 2. INDOO B MARK L NO.	ACCU-1	SCADA 107A ELEC. ROOM 105B ED UNDER ELECTI ERED FROM OUTDO ICE REFRIGERANT TYPE CE R-410A B R-410A	ROOF ROOF RICAL WORK. OOR UNIT. NOMINAL TONNAGE 4 4 44.75	R-410A         R-410A         3. WIRELESS I         4. DRAIN PAN         COOLING DA         FAL/         LE NET       COIL         CITIES       ROW/F         3H)       3/16         ' 16.8       4/12	6.8 REMOTE CC SENSOR SS ATA PI EAT DB/WB (°F) 74.7 / 62 79.4/75	3 NTROLLER 610, WIRED LAT A DB/WB (°F) 52.63 / 51.28 55 / 52	12.0         12.0         12.0         12.0         S. PROVIDE         TO SHUTD         MBIENT         DB/WB         (°F)         90.2 /         79.4/75	9.2 9.2 9.2 E CONTROL IN DOWN UNIT FC IEATING DATA JTPUT AMBIEN (°F) 9.99 3.5	7.5       8.3       TERFACE       PR HIGH C       (HEAT PUN       IT     EAT       (°F)     (       60.2     7       -	75.6/60.9 FOR BAS CO DNDENSATE //P) AT COP @ 47° F (HSPF) /2.4 8.2	20.0 INNECTION. HEATING TYPE CAF ELECTRIC 12 ELECTRIC 15	14.4       5.       6.       9       3 DATA (OTHE       ACITY       HEAT       OUTPU'       (MBH)       2 KW       40.98       KW       51.2	9.8 NOMINAL HEA NOMINAL COO ACKAGED I R) T TEMP. RISE DF (°F) FC CE / V 25.67	448 FING CAPACI LING CAPACI ROOFTOP ROOFTOP IVE TYPE IVE TYPE IVE TYPE ENTRIFUGAL ARIABLE DIRECT BC TRIFUGAL / ARIABLE	TIES ARE B TIES ARE E AIR HAN TOTAL AIRFLOW (CFM) 1470	ASED ON IN BASED ON IN SUPPLY FAN OUTSIDE AIRFLOW (CFM) 230	E (EXPOSED TED IDOOR COIL IDOOR COIL IDOOR COIL IDATA ESP (IN WG) QTY I 0.80 1 1	D) NA NA EAT OF 7 EAT OF 8 DULE HP PER MOTOR M 1	NA       NA       NA       0°F (DB), OUT       0/67°F (DB/WE       0/67°F (DB/WE       BHP       PER       IOTOR       0.60       1016       0.11	33 TRANE 26 TRANE DOOR OF 43°F 3), OUTDOOR CONDE R FAN TYPE PROPELLEF DIRECT	MITSUBISHI MITSUBISHI F (WB). OF 95°F (DB). NSER FAN TH DIA QTY. R / 1	NTXFKS12A1         MSZ-EF12NAR         7. INSTA         8. COND         FILTERS         ICKNESS (IN)         2       13         2/4       8 &	B-U1 208/230/1 ALL OUTDOOR UNIT O' DENSATE PUMP BLUE COMPRESSOR RV ING QTY TYPE (, 3 1 SCROLL 14 1 SCROLL	'ER ROOF RAIL;         DIAMOND (ADV)	S FOR SUPPO MINI CONDE POWER MOP (AMPS) (AMF 30.0 - - 30.0
AC-1 AC-2 NOTES: 1. DISCO 2. INDOO B MARK L NO. RTU-1 RTU-1	ACCU-1	SCADA 107A ELEC. ROOM 105B ED UNDER ELECTI ERED FROM OUTDO ICE REFRIGERANT TYPE CE R-410A 3 R-410A	ROOF ROOF RICAL WORK. OOR UNIT. NOMINAL TONNAGE 4 4 44.75 3 42.7	R-410A         R-410A         3. WIRELESS I         4. DRAIN PAN         COOLING DA         FAL/         SLE NET         COIL         COOLING DA         FAL/         SLE NET         COIL         ROW/F         3H)         / 35.14         3/16         / 16.8	6.8 REMOTE CC SENSOR SS ATA PI EAT DB/WB (°F) 74.7 / 62 79.4/75	MTROLLER: 610, WIRED LAT A DB/WB (°F) 52.63 / 51.28 55 / 52	12.0         12.0         12.0         S. PROVIDE         TO SHUTD	9.2 9.2 E CONTROL IN DOWN UNIT FC IEATING DATA JTPUT AMBIEN (°F) 19.99 3.5	7.5         8.3           TERFACE         PR           PR         HIGH           (HEAT         PUN           IT         EAT         L           (°F)         (           60.2         7           -         -	75.6/60.9 FOR BAS CO ONDENSATE //P) AT COP @ 47° F (HSPF) /2.4 8.2	20.0 INNECTION. HEATING TYPE CAF ELECTRIC 12 ELECTRIC 15	14.4       5.       6.       9       3 DATA (OTHE       ACITY       HEAT       OUTPU'       (MBH)       2 KW       40.98       KW       51.2	9.8 NOMINAL HEA NOMINAL COO ACKAGED I RISE DF (°F) 25.67 I 87 CEN V/ CEN	448 FING CAPACI LING CAPACI ROOFTOP IVE TYPE IVE TY	TIES ARE B TIES ARE E AIR HANI AIRFLOW (CFM) 1470 545	ASED ON IN BASED ON IN SUPPLY FAN OUTSIDE AIRFLOW (CFM) 230	E (EXPOSED ED IDOOR COIL NDOOR COIL NDOOR COIL IDATA ESP (IN QTY NG) 1 0.7 1	D) NA NA EAT OF 7 EAT OF 8 DULE HP PER MOTOR M 1	NA         NA           0°F (DB), OUT         0/67°F (DB/WE           0/67°F (DB/WE         0/67°F (DB/WE           BHP         MOTO           PER         SPEEI           IOTOR         (RPM)           0.60         1016           0.11         1888	33 TRANE 26 TRANE 200R OF 43°f 3), OUTDOOR CONDE R FAN TYPE PROPELLEF DIRECT	//MITSUBISHI       //MITSUBISHI       F (WB).       OF 95°F (DB).       SNSER       E       FAN DIA QTY.       R /       1	NTXFKS12A1*         MSZ-EF12NAH         7. INSTA         8. COND         FILTERS         ICKNESS (IN)         2       13         2/4       8 &	B-U1 208/230/1 ALL OUTDOOR UNIT O' DENSATE PUMP BLUE COMPRESSOR RV ING QTY TYPE (, 3 1 SCROLL 14 1 SCROLL	'ER ROOF RAIL!         DIAMOND (ADV)	S FOR SUPPO MINI CONDE POWER MOP (AMPS) (AMP 30.0 - 30.0
AC-1 AC-2 NOTES: 1. DISCO 2. INDOO B MARK L NO. RTU-1 RTU-2 NOTES:	ACCU-1	SCADA 107A ELEC. ROOM 105B ED UNDER ELECTI ERED FROM OUTDO ICE REFRIGERANT TYPE CE R-410A B R-410A	ROOF         RICAL WORK.         OOR UNIT.         NOMINAL         TONNAGE         TONNAGE         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4 <tr tr=""></tr>	R-410A R-410A 3. WIRELESS I 4. DRAIN PAN COOLING DA FAL/ SLE NET CITIES SH) / 35.14 3/16 / 16.8 4/12	6.8 REMOTE CC SENSOR SS ATA PI EAT DB/WB (°F) 74.7 / 62 79.4/75	3       -         NTROLLER:       610, WIRED         610, WIRED       -         LAT       A         DB/WB       (°F)         52.63 /       51.28         55 / 52       -	12.0         12.0         12.0         S. PROVIDE         TO SHUTD	9.2 9.2 9.2 E CONTROL IN DOWN UNIT FC IEATING DATA JTPUT AMBIEN (°F) 19.99 3.5	7.5       8.3       TERFACE       PR HIGH CH       (HEAT PUN       IT     EAT       (°F)     (       60.2     7       -	75.6/60.9 FOR BAS CO DNDENSATE	20.0 NNECTION. HEATING TYPE CAF ELECTRIC 12 ELECTRIC 15	14.4       5.       6.       9       3 DATA (OTHE       'ACITY       HEAT       'ACITY       UTPU'       (MBH)       ? KW       40.98       KW       51.2	9.8 NOMINAL HEA NOMINAL COC ACKAGED I RISE DF (°F) FC CE / V 25.67 I 87 CEN V/	448 FING CAPACI LING CAPACI ROOFTOP IVE TYPE IVE TY	TIES ARE B TIES ARE E AIR HANI AIR HANI (CFM) 1470 545	ASED ON IN BASED ON IN SUPPLY FAN OUTSIDE AIRFLOW (CFM) 230	E (EXPOSED ED IDOOR COIL IDOOR COIL IDOOR COIL IDATA ESP (IN QTY NG) 1 0.80 1 0.7 1	D) NA NA EAT OF 7 EAT OF 8 DULE HP PER MOTOR M 1 1	NA       BHP       PER       MOTO       SPEEI       (RPM)       0.60       1016       0.11       1888	33 TRANE 26 TRANE 200R OF 43°F 3), OUTDOOR CONDE R PROPELLEF DIRECT PROPELLEF DIRECT	<pre>//MITSUBISHI //MITSUBISHI = (WB). OF 95°F (DB). NSER E FAN TH DIA QTY. R / 1 1 R / 1 N DIA QTY. R / 1 N DIA R / 1 DIA R / 1 N DIA R / 1 N DIA</pre>	NTXFKS12A1*         MSZ-EF12NAH         7. INSTA         8. COND         FILTERS         ICKNESS         ME         (IN)         2         1:         2/4         8.	B-U1 208/230/1 ALL OUTDOOR UNIT O' DENSATE PUMP BLUE COMPRESSOR RV ING QTY TYPE (, 3 1 SCROLL 14 1 SCROLL	'ER ROOF RAIL!         DIAMOND (ADV)         FLA         MPS)         (AMPS)         -         30.0         21.4         26.7	S FOR SUPPO MINI CONDE POWER MOP (AMPS) (AMP 30.0
AC-1 AC-2 NOTES: 1. DISCO 2. INDOO B MARK L NO. RTU-1 RTU-1 RTU-2 NOTES: 1. DISCO PROVIS	ACCU-1	SCADA 107A ELEC. ROOM 105B ED UNDER ELECTI ERED FROM OUTDO ICE REFRIGERANT TYPE CE R-410A B R-410A ED UNDER ELECTI	RICAL WORK. DOR UNIT. NOMINAL TONNAGE 4 4 4 44.75 3 42.7 RICAL WORK. NO TONVENIENCE OUTL	R-410A R-410A 3. WIRELESS I 4. DRAIN PAN COOLING DA TAL/ 3LE NET CITIES BH) / 35.14 3/16 / 16.8 4/12 'HROUGH-THE- ET.	<ul> <li>6.1</li> <li>REMOTE CC SENSOR SS</li> <li>ATA</li> <li>PI EAT DB/WB (°F)</li> <li>74.7 / 62</li> <li>79.4/75</li> <li>BASE 3.</li> </ul>	NTROLLER: 610, WIRED LAT DB/WB (°F) 52.63 / 51.28 55 / 52 CONDENSE	12.0         12.0         12.0         S. PROVIDE         TO SHUTD	9.2         9.2         9.2         E CONTROL IN         DOWN UNIT FC         IEATING DATA         JTPUT         AMBIEN         (°F)         19.99         3.5         -         -         -         -         -         -         OTECTION WI	7.5       8.3       TERFACE       OR HIGH CO       (HEAT PUN       IT     EAT       (°F)     (       60.2     7       -     -       ITH HAIL G	75.6/60.9 FOR BAS CO ONDENSATE AP AT COP @ 47° F (HSPF) 22.4 8.2 5UARD.	20.0 INNECTION. HEATING TYPE CAF ELECTRIC 12 ELECTRIC 15 5. BL CC	14.4         5.1         6.1         3 DATA (OTHE         'ACITY OUTPU' (MBH)         ? KW       40.98         ; KW       51.2         ACK EPOXY P         'ATING EXTEF	9.8 NOMINAL HEA NOMINAL COC ACKAGED I R) T TEMP. RISE DF (°F) FC CE / V 25.67 I 87 CEN V/ I RE-COATED /C NOR, INTERIOR	448 TING CAPACI LING CAPACI ROOFTOP IVE TYPE IVE TY	TIES ARE B TIES ARE E AIR HANI AIR HANI (CFM) 1470 545 NHIBITING SER COILS	ASED ON IN BASED ON IN BASED ON IN BASED ON IN BUPPLY FAN OUTSIDE AIRFLOW (CFM) 230 545 OPTION.	E (EXPOSED ED IDOOR COIL IDOOR COIL IDOOR COIL IDATA ESP (IN QTY NG) 1 0.80 1 0.7 1 0.7 1	D) NA NA EAT OF 7 EAT OF 8 DULE HP PER MOTOR M 1 1 BACNET C	NA       BHP       PER       NOTO       SPEEI       NA       NA       NA       NA       NA       NA       NA       BHP       PER       NOTOR       SPEEI       (RPM)       0.60       1016       0.11       1888       COMMUNICATI       ROLS AND RO	33 TRANE 26 TRANE 20 OR OF 43°F 3), OUTDOOR CONDE R PROPELLEF DIRECT ON INTERFAC	//MITSUBISHI         //MITSUBISHI         F (WB).         OF 95°F (DB).         Image: Sinser         Image:	NTXFKS12A1         MSZ-EF12NAH         7. INSTA         8. COND         FILTERS         ICKNESS (IN)         2       1:         2       1:         2/4       8 &         10. CONDE         HEADP	B-U1 208/230/1 ALL OUTDOOR UNIT O' DENSATE PUMP BLUE COMPRESSOR RV QTY TYPE (, 3 1 SCROLL 14 1 SCROLL :NSER: AIR COOLED V RESSURE LOW AMBIE	'ER ROOF RAIL!         DIAMOND (ADV)         -         FLA (MCA (AMPS))         -         30.0         21.4         26.7         ARIABLE SPEED         NT CONTROL.	S FOR SUPPO MINI CONDE POWER MOP MF3 (AMPS) (AMF 30.0 - - 30.0 - 30.1 - 30.1 AMP
AC-1 AC-2 NOTES: 1. DISCO 2. INDOO B MARK L NO. RTU-1 RTU-1 RTU-2 NOTES: 1. DISCO PROVIS	ACCU-1	SCADA 107A ELEC. ROOM 105B ED UNDER ELECTI ERED FROM OUTDO ICE REFRIGERANT TYPE CE R-410A B R-410A ED UNDER ELECTI E UNPOWERED CO	RICAL WORK. DOR UNIT. NOMINAL TONNAGE 4 4 4 44.75 3 42.7 RICAL WORK. NO NVENIENCE OUTL	R-410A R-410A 3. WIRELESS I 4. DRAIN PAN COOLING DA TAL/ SLE NET CITIES BH) / 35.14 COIL ROW/F BH) / 35.14 3/16 / 16.8 4/12 'HROUGH-THE- ET. ATION CURB	6.₹ REMOTE CC SENSOR SS	NTROLLER: 610, WIRED LAT A DB/WB (°F) 52.63 / 51.28 55 / 52 CONDENSE PROVIDE LI	12.0         12.0         12.0         S. PROVIDE         TO SHUTD	9.2 9.2 9.2 E CONTROL IN DOWN UNIT FC IEATING DATA JTPUT AMBIEN (°F) 19.99 3.5  OTECTION WI INGED ACCES	7.5       8.3       TERFACE       PR HIGH CH       (HEAT PUN       IT     EAT       (°F)     (       60.2     7       -     -       ITH HAIL G       SS DOORS	75.6/60.9 FOR BAS CO DNDENSATE AT COP @ 47° F (HSPF) 2.4 8.2 SUARD. FOR FILTER	20.0 INNECTION. HEATING TYPE CAF ELECTRIC 12 ELECTRIC 15 S. BL CC	14.4         5.         6.         7         3 DATA (OTHE         ACITY OUTPU' (MBH)         2 KW         40.98         5 KW         5 KW         5 KW         5 1.2         ACK EPOXY P         ACK EPOXY P         ATING EXTEF         ROVIDE RAIN	9.8 NOMINAL HEA NOMINAL COC ACKAGED I R) T TEMP. RISE DF (°F) FC CE / V 25.67 I 87 CEN V/ I RE-COATED /C NOR, INTERIOF HOOD/MANI IA	448 TING CAPACI LING CAPACI ROOFTOP IVE TYPE IVE TYPE IVE TYPE ENTRIFUGAL ARIABLE DIRECT BC TRIFUGAL / ARIABLE DIRECT CORROSION I R & CONDENS L OUTSIDE D	TIES ARE B TIES ARE E AIR HAN TOTAL AIRFLOW (CFM) 1470 545 NHIBITING SER COILS	ASED ON IN BASED ON IN BASED ON IN BASED ON IN BUPPLY FAN OUTSIDE AIRFLOW (CFM) 230 545 OPTION.	E (EXPOSE ED IDOOR COIL IDOOR COIL IDOOR COIL IDATA ESP (IN QTY NG) 1 0.80 1 0.7 1 0.7 1 7. PROVIDE MONITOR W/OVRD. 8. HOT GAS	D) NA NA NA EAT OF 7 EAT OF 8 DULE HP PER MOTOR M 1 1 1 BACNET ( ING CONT REFER TO	NA       NA       NA       NA       NA       NA       NA       0°F (DB), OUT       0/67°F (DB/WE       BHP       MOTO       PER       NA       0.60       1016       0.60       1016       0.11       1888       COMMUNICATI       ROLS AND RC       OCONTROLS I       MODULATIN	33 TRANE 26 TRANE 26 TRANE 200R OF 43°f 3), OUTDOOR CONDE R PROPELLEI DIRECT PROPELLEI DIRECT ON INTERFAC OM SENSOR DRAWING. 3	//MITSUBISHI         //MITSUBISHI         F (WB).         OF 95°F (DB).         ENSER         ENSER         A /         1         A /         1         CE, SYSTEM         W/ TEMP.ADJ	NTXFKS12A1*         MSZ-EF12NAH         7. INSTA         8. COND         FILTERS         ICKNESS (IN)         2         11.         ELTERS         11.         ELTERS	B-U1 208/230/1 ALL OUTDOOR UNIT O' DENSATE PUMP BLUE COMPRESSOR RV ING QTY TYPE (, 3 1 SCROLL 14 1 SCROLL INSER: AIR COOLED V RESSURE LOW AMBIE RIC HEAT: SCR MODI	'ER ROOF RAIL!         DIAMOND (ADV)	S FOR SUPPO MINI CONDE POWER MOP (AMPS) (AMF 30.0 - - 30.0 - 30.0 - 30.0 - 13. RE AL AL
AC-1 AC-2 NOTES: 1. DISCO 2. INDOO B MARK L NO. RTU-1 RTU-1 RTU-2 NOTES: 1. DISCO PROVIS	ACCU-1	SCADA 107A ELEC. ROOM 105B ED UNDER ELECTI ERED FROM OUTDO ICE REFRIGERANT TYPE CE R-410A B R-410A ED UNDER ELECTI E UNPOWERED CO DISCHARGE ROO	ROOF ROOF RICAL WORK. DOR UNIT. NOMINAL TONNAGE A 4 4 4 4 44.75 3 42.7 RICAL WORK. NO TONVENIENCE OUTL OF VIBRATION ISOL	R-410A R-410A 3. WIRELESS I 4. DRAIN PAN COOLING DA TAL/ 3LE NET COIL CITIES BH) / 35.14 COIL ROW/F BH) / 35.14 3/16 / 16.8 4/12 'HROUGH-THE- ET. ATION CURB.	- 6.8 REMOTE CC SENSOR SS - 4.7 / 62 - 79.4/75 - BASE 3. 4.	ANTROLLER: 610, WIRED LAT DB/WB (°F) 52.63 / 51.28 55 / 52 CONDENSE PROVIDE UI EVAPORATO CONTROL A	12.0         12.0         12.0         12.0         S. PROVIDE         TO SHUTD         MBIENT         DB/WB         (°F)         90.2 /         79.4/75         R         COIL         NIT WITH H         DR, SUPPLY         CCESS	9.2 9.2 9.2 E CONTROL IN DOWN UNIT FC IEATING DATA JTPUT AMBIEN (°F) 19.99 3.5  !OTECTION WI	7.5       8.3       TERFACE       PR HIGH CH       (HEAT PUN       IT     EAT       (°F)     (       60.2     7       -     -       ITH HAIL G       SS DOORS       ND THE C	75.6/60.9 FOR BAS CO DNDENSATE	20.0 INNECTION. HEATING TYPE CAF ELECTRIC 12 ELECTRIC 15 ELECTRIC 15 S. BL CC 3/ 6. P	14.4         5.         6.         9         3 DATA (OTHE         ACITY OUTPU' (MBH)         2 KW         40.98         5 KW         5 KW         51.2         ACK EPOXY P         ATING EXTEF         ROVIDE RAIN         -50% ADJ.	9.8 NOMINAL HEA NOMINAL COC ACKAGED I R) T TEMP. RISE DF (°F) FC CE / V 25.67 I 87 CEN' V, I RE-COATED /C NOR, INTERIOF HOOD/MANUA	448 TING CAPACI LING CAPACI ROOFTOP IVE TYPE IVE TY	TIES ARE B TIES ARE B AIR HAN AIR HAN (CFM) 1470 545 NHIBITING SER COILS DAMPER	ASED ON IN BASED ON IN BASED ON IN BASED ON IN BUPPLY FAN OUTSIDE AIRFLOW (CFM) 230 545 OPTION.	E (EXPOSE ED IDOOR COIL IDOOR COIL IDOOR COIL IDATA ESP (IN QTY NG) 1 0.80 1 0.7 1 0.7 1 0.7 1 7. PROVIDE MONITOR W/OVRD. 8. HOT GAS 9. DIGITAI	D) NA NA NA EAT OF 7 EAT OF 8 DULE HP PER MOTOR M 1 1 1 BACNET ( ING CONT REFER TC 5 RE-HEAT SCROLL (	NA         NA         NA         NA         NA         0°F (DB), OUT         0/67°F (DB/WE         BHP         MOTO         PER         NA         0.60         1016         0.60         1016         0.11         1888         COMMUNICATI         ROLS AND RC         CONTROLS I         MODULATIN         COMPRESSOF	33       TRANE         26       TRANE         2000R OF 43°F         3), OUTDOOR         3), OUTDOOR         B), OUTDOOR         CONDE         PROPELLEF         DIRECT         PROPELLEF         DIRECT         ON INTERFACTOR         ON INTERFACTOR         ON SENSOR         DRAWING.         G	//MITSUBISHI         //MITSUBISHI         F (WB).         OF 95°F (DB).         :NSER         :NSER         :DIA         QTY.         R /         1	NTXFKS12A1*         MSZ-EF12NAH         7. INSTA         8. COND         FILTERS         ICKNESS (IN)         2         11. ELECT         12. 2-POS	B-U1 208/230/1 ALL OUTDOOR UNIT O' DENSATE PUMP BLUE COMPRESSOR RV ING QTY TYPE (, 3 1 SCROLL 14 1 SCROLL INSER: AIR COOLED V RESSURE LOW AMBIE FRIC HEAT: SCR MODU	'ER ROOF RAIL!         DIAMOND (ADV)         FLA       MCA         FLA       MCA         ·       30.0         21.4       26.7         ARIABLE SPEED       NT CONTROL.         LATING       'ER - CLASS 1A	S FOR SUPPO MINI CONDE POWER MOP (AMPS) (AMP 30.0 - 30.0 D 13. RE AC 14. FL
AC-1 AC-2 NOTES: 1. DISCO 2. INDOO B MARK L NO. RTU-1 RTU-1 RTU-2 NOTES: 1. DISCO PROVIS	ACCU-1	SCADA 107A ELEC. ROOM 105B ED UNDER ELECTI ERED FROM OUTDO ICE REFRIGERANT TYPE CE R-410A B R-410A ED UNDER ELECTI E UNPOWERED CO DISCHARGE ROO	ROOF ROOF ROOF RICAL WORK. OOR UNIT. NOMINAL TONNAGE A 4 4 44.75 3 42.7 RICAL WORK. NO TO NVENIENCE OUTL F VIBRATION ISOL	R-410A R-410A 3. WIRELESS I 4. DRAIN PAN COOLING DA TAL/ 3LE NET COIL CITIES BH) / 35.14 COIL ROW/F BH) / 35.14 3/16 / 16.8 4/12 'HROUGH-THE- ET. ATION CURB.		ANTROLLER: 610, WIRED LAT DB/WB (°F) 52.63 / 51.28 55 / 52 CONDENSE PROVIDE UI EVAPORATO CONTROL A	12.0         12.0         12.0         S. PROVIDE         TO SHUTD         MBIENT         OL         (°F)         90.2 /         79.4/75         R         COIL         NIT WITH H         DR, SUPPLY         CCESS.	9.2 9.2 9.2 E CONTROL IN DOWN UNIT FC IEATING DATA JTPUT AMBIEN (°F) 19.99 3.5  IOTECTION WI	7.5       8.3       TERFACE       PR HIGH CH       (HEAT PUN       IT     EAT L       (°F)     (°F)       60.2     7       -     -       ITH HAIL G       SS DOORS       ND THE C	75.6/60.9 FOR BAS CO DNDENSATE	20.0 INNECTION. HEATING TYPE CAF ELECTRIC 12 ELECTRIC 12 ELECTRIC 15 S. BL CC 3/ 6. P 0	14.4         5.         6. <b>P</b> 3 DATA (OTHE         'ACITY         HEAT         'ACITY         HEAT         'ACITY         HEAT         'ACITY         HEAT         'ACITY         HEAT         'ACITY         HEAT         OUTPU'         (MBH)         'KW         40.98         ; KW         51.2         ACK EPOXY P         ACK EPOXY P         ATING EXTEF         ROVIDE RAIN         -50% ADJ.	9.8 NOMINAL HEA NOMINAL COC ACKAGED I R T TEMP. T RISE DF (°F) FC CE / V 25.67 R 87 CEN V, I RE-COATED /C ROMINAL COC	448 TING CAPACI LING CAPACI ROOFTOP IVE TYPE IVE TY	TIES ARE B TIES ARE B AIR HAN AIR HAN (CFM) 1470 545 NHIBITING SER COILS AMPER	ASED ON IN BASED ON IN BASED ON IN BASED ON IN BUPPLY FAN OUTSIDE AIRFLOW (CFM) 230 545 OPTION.	E (EXPOSE ED IDOOR COIL IDOOR COIL IDOOR COIL IDATA ESP (IN QTY MG) 1 0.80 1 0.7 1 0.7 1 0.7 1 7. PROVIDE MONITOR W/OVRD. 8. HOT GAS 9. DIGITAL	D) NA NA NA EAT OF 7 EAT OF 8 DULE HP PER MOTOR M 1 1 1 BACNET C ING CONT REFER TC S RE-HEAT SCROLL C	NA         NA         NA         NA         0°F (DB), OUT         0/67°F (DB/WE         BHP         MOTO         PER         NA         0.60         1016         0.60         1016         0.11         1888         COMMUNICATI         ROLS AND RO         OCONTROLS I         COMPRESSOF	33       TRANE         26       TRANE         2000R OF 43°F         3), OUTDOOR         3), OUTDOOR         B), OUTDOOR         CONDE         R)         FAN TYPE         PROPELLEF         DIRECT         ON INTERFAC         OM SENSOR         ORAWING.         G	//MITSUBISHI         //MITSUBISHI         F (WB).         OF 95°F (DB).         Image: Signal of the second seco	NTXFKS12A1*         MSZ-EF12NAR         7. INSTA         8. COND         FILTERS         ICKNESS       ME         (IN)       RAT         2       13         2/4       8 &         10. CONDE         HEADP         11. ELECT         12. 2-POS	B-U1 208/230/1 ALL OUTDOOR UNIT O' DENSATE PUMP BLUE COMPRESSOR RV ING QTY TYPE (, 3 1 SCROLL 14 1 SCROLL 14 1 SCROLL :NSER: AIR COOLED V 'RESSURE LOW AMBIE FRIC HEAT: SCR MODU	'ER ROOF RAIL!         DIAMOND (ADV)         FLA       MCA         FLA       MCA         -       30.0         21.4       26.7         ARIABLE SPEED       NT CONTROL.         LATING       2ER - CLASS 1A	S FOR SUPPO MINI CONDE POWER MOP (AMPS) (AMF 30.0 - 30.0 - 30.0 D 13. RE AL 14. FL
AC-1 AC-2 NOTES: 1. DISCO 2. INDOO B MARK L NO. RTU-1 RTU-1 RTU-2 NOTES: 1. DISCO PROVIS	ACCU-1	SCADA 107A ELEC. ROOM 105B ED UNDER ELECTI ERED FROM OUTDO ICE REFRIGERANT TYPE CE R-410A B R-410A ED UNDER ELECTI UNPOWERED CO DISCHARGE ROO	ROOF ROOF ROOF RICAL WORK. OOR UNIT. NOMINAL TONNAGE A 4 4 44.75 3 42.7 RICAL WORK. NO T NVENIENCE OUTL OF VIBRATION ISOL	R-410A R-410A 3. WIRELESS I 4. DRAIN PAN COOLING DA TAL/ 3LE NET COIL CITIES BH) / 35.14 3/16 / 16.8 4/12 'HROUGH-THE- ET. ATION CURB.		ANTROLLER: 610, WIRED LAT A DB/WB (°F) 52.63 / 51.28 55 / 52 CONDENSE PROVIDE UI EVAPORATO CONTROL A	12.0         12.0         12.0         S. PROVIDE         TO SHUTD         TO SHUTD         MBIENT DB/WB (°F)       OL (!)         90.2 / 72.2       1         79.4/75          R COIL PR         VIT WITH H DR, SUPPLY CCESS.	9.2 9.2 9.2 E CONTROL IN DOWN UNIT FC IEATING DATA JTPUT AMBIEN (°F) 19.99 3.5  IOTECTION WI INGED ACCES Y FAN/HEAT A	7.5         8.3         TERFACE         OR HIGH CO         (HEAT PUN         IT         EAT         (°F)         60.2         7         60.2         7         -         ITH HAIL G         SS DOORS         ND THE C	75.6/60.9 FOR BAS CO DNDENSATE	20.0 INNECTION. HEATING TYPE CAF ELECTRIC 12 ELECTRIC 15 5. BL CC 3/ 6. P 0	14.4         5.         6. <b>P</b> 3 DATA (OTHE         'ACITY         HEAT         'ACITY         HEAT         'ACITY         HEAT         'ACITY         HEAT         'ACITY         HEAT         'ACITY         HEAT         OUTPU'         (MBH)         'KW         40.98         ; KW         51.2         ACK EPOXY P         ATING EXTEF         ROVIDE RAIN         -50% ADJ.	9.8 NOMINAL HEA NOMINAL COC ACKAGED I RISE DF (°F) FC CE /V 25.67 I 87 CEN V, I RE-COATED /C ROM, INTERION HOOD/MANUA	448 TING CAPACIT LING CAPACIT ROOFTOP IVE TYPE IVE	TIES ARE B TIES ARE B AIR HAN AIR HAN (CFM) 1470 545 NHIBITING SER COILS DAMPER	ASED ON IN BASED ON IN BASED ON IN BASED ON IN BASED ON IN SUPPLY FAN OUTSIDE AIRFLOW (CFM) 230 545 OPTION.	E (EXPOSE ED IDOOR COIL IDOOR COIL IDOOR COIL IDATA ESP (IN QTY NG) 1 0.80 1 0.7 1 0.7 1 7. PROVIDE MONITOR W/OVRD. 8. HOT GAS 9. DIGITAL	D) NA NA NA EAT OF 7 EAT OF 8 DULE HP PER MOTOR M 1 1 1 BACNET C ING CONT REFER TC S RE-HEAT SCROLL C	NA         NA         NA         NA         0°F (DB), OUT         0/67°F (DB/WE         BHP         PER         NA         0.60         1016         0.60         1016         0.11         1888         COMMUNICATI         ROLS AND RC         0 CONTROLS I         COMPRESSOF	33       TRANE         26       TRANE         2000R OF 43°H         3), OUTDOOR         3), OUTDOOR         B), OUTDOOR         CONDE         R)         FAN TYPE         PROPELLEH         DIRECT         ON INTERFAC         OM SENSOR         ORAWING.         G	//MITSUBISHI         //MITSUBISHI         F (WB).         OF 95°F (DB).         Image: Single state	NTXFKS12A1*         MSZ-EF12NAH         7. INSTA         8. COND         FILTERS         ICKNESS       ME         (IN)       RAT         2       13         2/4       8 &         10. CONDE         HEADP         11. ELECT         12. 2-POS	B-U1 208/230/1 ALL OUTDOOR UNIT O' DENSATE PUMP BLUE COMPRESSOR RV ING QTY TYPE ( 3 1 SCROLL 14 1 SCROLL 14 1 SCROLL NSER: AIR COOLED V 'RESSURE LOW AMBIE FRIC HEAT: SCR MODU	'ER ROOF RAIL!         DIAMOND (ADV)         FLA       MCA         FLA       MCA         (AMPS)       (AMPS)         -       30.0         21.4       26.7         ARIABLE SPEED       NT CONTROL.         LATING       PER - CLASS 1A	S FOR SUPPO MINI CONDE POWER MOP (AMPS) (AMP 30.0 - - - 30.0 - 30.0 - - 30.0 - - 30.0 - - 30.0 - - - 30.0
AC-1 AC-2 NOTES: 1. DISCO 2. INDOO B MARK L NO. RTU-1 RTU-1 RTU-2 NOTES: 1. DISCO PROVIS	ACCU-1	SCADA 107A ELEC. ROOM 105B ED UNDER ELECTI ERED FROM OUTDO ICE REFRIGERANT TYPE CE R-410A B R-410A ED UNDER ELECTI E UNPOWERED CO DISCHARGE ROO	ROOF ROOF RICAL WORK. OOR UNIT. NOMINAL TONNAGE 4 4 4 4 4 4 4 4 4 4 4 4 7 5 8 10 8 10 10 10 10 10 10 10 10 10 10 10 10 10	R-410A R-410A 3. WIRELESS I 4. DRAIN PAN COOLING DA TAL/ 3LE NET CITIES BH) / 35.14 3/16 / 16.8 4/12 'HROUGH-THE- ET. ATION CURB.	- 6.8 REMOTE CC SENSOR SS - 74.7 / 62 - 79.4/75 - BASE 3. 4.	NTROLLER: 610, WIRED LAT A DB/WB (°F) 52.63 / 51.28 55 / 52 CONDENSE PROVIDE UI EVAPORATO CONTROL A	12.0         12.0         12.0         12.0         S. PROVIDE         TO SHUTD         TO SHUTD         MBIENT DB/WB (°F)       OL (!)         90.2 / 72.2       1         79.4/75          R COIL PR         VIT WITH H DR, SUPPLY CCESS.	9.2 9.2 9.2 E CONTROL IN DOWN UNIT FC IEATING DATA JTPUT AMBIEN (°F) 19.99 3.5 - IOTECTION WI IINGED ACCES Y FAN/HEAT A	7.5         8.3         TERFACE         OR HIGH CO         (HEAT PUN         IT       EAT         (°F)       (         60.2       7         60.2       7         -          ITH HAIL G       SS DOORS         ND THE C	75.6/60.9 FOR BAS CO DNDENSATE AT COP @ 47° F (HSPF) 2.4 8.2 GUARD. FOR FILTER OMPRESSOF	20.0 NNECTION. HEATING TYPE CAF ELECTRIC 12 ELECTRIC 15 5. BL CC 3/ 6. P 0	14.4         5.1         6.1 <b>P</b> 3 DATA (OTHE         'ACITY         HEAT         'ACITY         UTPU'         (MBH)         ? KW         40.98         ; KW         51.2         ACK EPOXY P         ATING EXTEF         ROVIDE RAIN         -50% ADJ.	9.8 NOMINAL HEA NOMINAL COC ACKAGED I R) T TEMP RISE DF (°F) FC CE / V 25.67 I 87 CEN V, I 'RE-COATED /C ROMINAL COC	448 FING CAPACI LING CAPACI ROOFTOP IVE TYPE IVE TY	TIES ARE B TIES ARE B AIR HANI AIR HANI (CFM) 1470 545 NHIBITING SER COILS DAMPER	ASED ON IN BASED ON IN BASED ON IN BASED ON IN BUPPLY FAN OUTSIDE AIRFLOW (CFM) 230 545 OPTION.	E (EXPOSE ED IDOOR COIL IDOOR COIL IDOOR COIL IDATA ESP (IN QTY NG) 1 0.80 1 0.7 1 0.7 1 7. PROVIDE MONITOR W/OVRD. 8. HOT GAS 9. DIGITAL	D) NA NA NA EAT OF 7 EAT OF 8 DULE HP PER MOTOR M 1 1 1 BACNET C ING CONT REFER TC S RE-HEAT SCROLL C	NA         NA         NA         NA         0°F (DB), OUT         0/67°F (DB/WE         BHP         MOTO         PER         NA         0.60         1016         0.60         1016         0.11         1888         COMMUNICATI         ROLS AND RO         0 CONTROLS I         COMPRESSOF	33       TRANE         26       TRANE         20OOR OF 43°F         3), OUTDOOR         3), OUTDOOR         PROPELLEF         DIRECT         PROPELLEF         DIRECT         ON INTERFACE         ON SENSOR         ORAWING.         G	<pre>//MITSUBISHI //MITSUBISHI = (WB). OF 95°F (DB). NSER = FAN TH DIA QTY. 3/ 1 3/ 1 3/ 1 3/ 1 3/ 1 5E, SYSTEM W/ TEMP.ADJ</pre>	NTXFKS12A1         MSZ-EF12NAH         7. INSTA         8. COND         FILTERS         ICKNESS (IN)         2       1:         2/4       8 &         10. CONDE         HEADP         11. ELECT         12. 2-POS	B-U1 208/230/1 ALL OUTDOOR UNIT O' DENSATE PUMP BLUE COMPRESSOR RV ING QTY TYPE ( 3 1 SCROLL 14 1 SCROLL INSER: AIR COOLED V 'RESSURE LOW AMBIE FRIC HEAT: SCR MODU ITION OUTDOOR DAM	'ER ROOF RAIL:         DIAMOND (ADV)         FLA       MCA         FLA       MCA         (AMPS)       (AMPS)         -       30.0         21.4       26.7         ARIABLE SPEEE       NT CONTROL.         LATING       >ER - CLASS 1A	S FOR SUPPO MINI CONDE POWER MOP (AMPS) (AMP 30.0 - - 30.0 - 30.0 - 30.0 - 13. RE AL AL AL AL
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ECTIC	N WITH A	ARCHITI	ECT.	7. BACI	NET THER	RMOST	AT.									REFRIGE REFRIGE	ERANT ERANT	T: R-410A T CONCENT 1 TABLE 11	RATION L	IMIT RCL (LB/	(MCF)= 26	2016)					CITY	OF NEWBURGH	
																REF. SYS	STEMS	IS WITH MO	RE THAN	6.6 POUNDS (	3.0 KG) OF I	REFRIGEI	RANT)						
ESP	FAN			МО				WEIGHT	-	MFR		MODEL	N	IOTES	SYS	STEM	PRI	RE-CHARGE (LBS)	D F	IELD CHARGE (LBS, EST.)	E TOT. (L	AL CHAR BS, EST.)	GE MIN. A ROOM (CE).	LLOWED VOLUME NOTE 1					
0.5 0.75		1346 1563	1/4 1/4	0.07	172	25 25	115/60/1 115/60/1	43 62	(	GREENHE	K K	G-097-VG SQ-97-VG	à à 1-2	1-6 2, 6-9,13	ACC		τοται	6.8	REERIGE			6.8	2 2 2 2 2 2 2 2	62			WA TREA	STEWATER TMENT PLANT	
1.00		1705	1/2	0.37	172	25	208/60/3	5.96	PLAST	EC VENTI		P20ST4P00	33 6, <sup>-</sup>	10-12,13			(NON-										(WV E	VTP) ADMIN BUILDING	
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/HEEL	); COMPC	OSITE W	HEEL MAT	ERIAL	12. P 13. P	PROVII PROVII	DE OEM F	ACTORY	MOUNTE	ED VFD AN AS RECOM	D CONTROL	.S. BY				SYSTEM	ROON	M	AF	REA (SF)	CEIL	ING HEIG (FT)	HT ROOM	VOLUME CF)	COMPLIES	5?	BID NUMBER 7.	24	
						MANUI	ACTURE	:R								ACCU-1 S	SCADA	DA Room		57		8	4	56	YES		ARCADIS PROJ	. NO. 30183827	_
		DUC	TLESS S	PLIT HE	AT PUM	P SY	STEM S	SCHEDU																					
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NAL NG XITY H)	HEAT COP @ (HSF	ING 9 47°F PF)	PEAK AIR FLOW (CFM)		IYP	Έ				WEIGF (LBS)	I MI	-GR	MC	DEL	V/PH				V	(LBS)	MFR		MODEL		NOTES		NO. DATE	ISSUED FOR BY	
)	9.8	3	417	FLOOR-ST	ANDING	TYPE (	(EXPOSE	D) NA	MOF NA	33	TRANE/M	IITSUBISHI	NTXFKS	312A112AA		MC		RFS M		407 TD				0044	1-8		COPYRIGHT: A	RCADIS OF NEW YORK,	-
1	9.8 NOMINI				WALL MO						TRANE/M	NITSUBISHI	MSZ-EF	12NAB-U1									H-54	32AA	1-8		2014 IN	C.	
6	. NOMINA	AL COO		CITIES ARE	BASED O	N IND	OOR COI	L EAT OF	80/67°F (	DB/WB), C	UTDOOR OI	F 95°F (DB)	. 8. (	CONDENS	ATE PUMP	BLUE DIAI	MOND	D (ADV) MIN		NSATE PUMP	W/ RESERV	OIR & SE	NSOR 208/23	0V.			DATE: PROJECT NO.:	SEPTEMBER 2024 30183827	
		GED F	ROOFTOF	P AIR HAN				DULE				SER	FILTER	29	COMPRES	SOR			POWER								FILE NAME: DESIGNED BY:	A. DSOLA	
HEA		⊳. <u>=</u> DR	IVE TYPE	TOTAL AIRFLOW	OUTSIDE	E ES V (IN	P QTY	HP PER	BHP PER	MOTOR SPEED	FAN TYPE	FAN TH	HICKNESS	MERV		PE FL/	A I PS) (A	MCA MO AMPS) (AMF	P MFS	S) V/PH/HZ	EER, V [SEER]	VEIGHT ( (LB)	DIMENSIONS (H/W/L) (FT)	MFR	MODEL	NOTES	DRAWN BY: CHECKED BY:	L. BANGARU V. VITALE	
(MBI	1) (°F)	FC CE		(CFM) -	(CFM)		á)	MOTOR	MOTOR	(RPM)		QTY.															SHEET TITLE	HVAC	_
40.9	8 25.67	7 [		1470	230	0.8	80 1	1	0.60	1016	DIRECT	1	2	13	1 SCR	ROLL -		30.0 30.	) -	460/3/60 1	2.3, [14.3]	818 3	3.41/3.69/5.82	TRANE	WSC048H4F EA	1-7, 14			
51.2	2 87	CEN V/	BC FRIFUGAL / ARIABLE DIRECT	545	545	0.7	7 1	1	0.11	1888 P	ROPELLER / DIRECT	1	2/4	8 & 14	1 SCR	OLL 21.	.4	26.7 -	30.0	460/3/60 1	13.6 [15.7]	1428 4	1.58/4.33/9.91	TRANE	OABD036F4	1-5, 7, 8-14	SC	HEDULES I	
EPOXY	PRE-CO	ATED /C	ORROSION		G	7.	PROVIDE	BACNET	COMMUI		NTERFACE	, SYSTEM	10. C	ONDENSE	R: AIR CO			E SPEED	13. REI	FER TO SPEC	IFICATION S	SECTION	237413 FOR						
G EXTI	Erior, In N Hood/	NTERIOF /MANUA	R & CONDE	NSER COIL	S OPTION	I. 8.	Monitof W/OVRD. . Hot ga:	RING CON REFER TO S RE-HEA	TROLS A O CONTI T: MODU	ND ROOM ROLS DRA	SENSOR W WING.	/ TEMP.AD	J. H 11. E	EADPRES	SURE LOW	/ AMBIENT R MODULA	T CON <sup>-</sup>	NTROL.	AD 14. FLC	DITIONAL REC	QUIREMENT	S. REIN CO	RRESPOND <sup>-</sup>	TO SYSTE	:M'S				
ADJ.						9	). DIGITAL	SCROLL	COMPRE	ESSOR			12.2	2-POSITIO	N OUTDOC	or Dampei	R - CL	LASS 1A	TEI UN AN	RMINAL AIR FI IT SELECTION D SYSTEM BA	LOWS AGRE NSHALL ACO LANCED AC	GATES II COUNT FO CORDINO	NDICATED IN OR FOR SYS GLY TO MEET	I SHEET H TEM DUC DESIGN	I-51. FINAL T LEAKAGE SPACE AIR	FLOWS.			
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DEI			GERAN	IT CON	CENTRA	ATION LIN	IIT (RCI	L) CALCULA	TIONS				ORAN			
REF REF (NY	RIGERAL RIGERAL SMC 110	NT: R-41 NT CON 3.1, TAB	UA CENTRA LE 1103	TION LIN. .1; ANSI/A	AIT RCL (LI ASHRAE S	B/MCF)= 26 TANDARD 3	4-2016)						CIT	Y OF NEW	BURGH	
REF	. SYSTEI	MS WITH	HMORE	THAN 6.6	6 POUNDS	(3.0 KG) OF	REFRIG	ERANT)								
SYSTEM	F	RE-CHA	RGED	FIE		ÈE TC		RGE MIN. A		)						
ACCU-1		(LBS 6.8	») 		_BS, EST.) 0		6.8	.) (CF).	NOTE 1 262	-			W	ASTEW	ATER	
NO	TE 1: TOT (NO	AL SYS	TEM RE	FRIGERA	NT GHAR( PANCY)	GE (LBS) / R	CL (LBS/I	MCF) X 1000					TREA (W		T PLAN <sup>.</sup> Admin	Т
NYS VOL	SMC 1104 UME OF	.4.1 NOI THE SM	NCOMMI	JNICATIN , ENCLOS	IG SPACE	S: IPIED SPAC	E BY SYS	STEM					RI	BUILDI ENOVA	NG TION	
SYS		DM		ARE	A (SF)	CE		IGHT ROOM			?					
			~		57		(FI) 	((	UF)	VES		BID	NUMBER	7.24		
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				OUTDO	OR SECTIO	N										
/PH	ELEC	TRICAL	DATA	WEI	GHT	MFR		MODEL		NOTES						
	MCA	RFS	MOC	P (								NO.	DATE	ISSL	JED FOR	BY
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RUNIT	OVER RC		_S FOR :	SUPPOR	T. REFER	TO DETAIL	1 IN SHEE	ET H-54.					⊏.	SEDTEN		
MP BLUI	e diamon	ND (ADV	) MINI C	ONDENS	ATE PUMF	⁰ W/ RESER	VOIR & S	ENSOR 208/23	80V.			PRO	JECT NO.:	3018382	27	
												FILE DES	NAME: IGNED BY:	A. DSOL	_A	
RESSOR			PC	OWER		EER,	WEIGHT	DIMENSIONS	MER	MODEL	NOTES	DRA	WN BY:	L. BANG	àARU	
TYPE	FLA (AMPS)	MCA (AMPS)	MOP (AMPS)	(AMPS)	V/PH/HZ	[SEER]	(LB)	(H/W/L) (FT)		MODEL	NOTES	CHE	CKED BY:	V. VITAI	LE	
SCROLL	-	30.0	30.0	-	460/3/60	12.3, [14.3]	818	3.41/3.69/5.82	TRANE	WSC048H4R	1-7, 14			HVAC	;	
										EA						
SCROLL	21.4	26.7	-	30.0	460/3/60	13.6 [15.7]	1428	4.58/4.33/9.91	TRANE	OABD036F4	1-5, 7, 8-14		S	CHEDU	LES I	
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SCR MO DOOR DA	DULATIN	G CLASS 1	A	14. FLOW TERM UNIT AND 3	/ RATES IN /INAL AIR SELECTIC SYSTEM B	NDICATED H FLOWS AGA N SHALL A ALANCED A	IEREIN C REGATES CCOUNT ACCORDII	ORRESPOND INDICATED IN FOR FOR SYS NGLY TO MEE	TO SYST N SHEET TEM DU( T DESIGN	'EM'S H-51. FINAL CT LEAKAGE N SPACE AIR F	LOWS.					
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NEW YOR	STATE MECHANICAL	CODE 2020, SE(	CTION 403					
HAUST AIRFLOW RATE	Air Distribution Effectiveness	Supply Air (Provided)	Min Exhaust Air	Space Floor Area	# OC	CUPANTS	Breathing Zone Outdoor Air	Space Outdoo Air
CFM/SQFT [CFM/WC] (CFM/SH)	(Ez)	CFM	CFM	Sqft (Az)	(Pz, Default)	(Pz, design)	CFM (Vbz)	(Voz)
EF-1 (403.3.1.1.2.3 Mu	II. Zone Recirc. System	s); System Diver	sity (D) = 1; Constar	nt Volume				
0.25	1.00	90	25	99.0	0.0	0.0	0	0
[70]+(20)	1.00	35	90	46.0	0.0	0.0	0	0
[70]	1.00	25	70	40.0	0.0	0.0	0	0
-	0.80	110		130.7	0.0	0.0	8	10
_	0.80	240		172.0	0.9	3.0	25	32
-	0.80	250		165.0	0.8	3.0	25	31
-	0.80	125		68.0	0.3	2.0	14	18
-	0.80	400		226.0	11.3	11.4	71	88
-	0.80	125		145.0	1.5	2.0	19	23
SYSTEM TO	TALS (RTU-1 & EF-1)	1400	185	1092		21	161	202
CAV SYSTEM & EF-3,	4 (403.3.1.1.2.2 100-Per	cent Outdoor Ai	r Systems), Constar	nt Volume				
1.00	0.8	540	242	242 0	6.1	61	105	131

		6		ARCADIS
or	Primary Outdoor Air Fraction	Space Ventilation Efficiency	Outdoor Air Intake Flow Rate Min.	LEGAL ENTITY: ARCADIS OF NEW YORK, INC. CONSULTANTS
	(Zp)	(Evz)	(Vot)	
	0.00 0.00 0.00	1.000 1.000 1.000		
	0.09 0.13 0.12 0.14 0.22 0.19	1.000 1.000 1.000 1.000 0.929 0.963		SEALS
	0.22	0.929 -	174 131	
				ORANGE COUNY, NEW YORK CITY OF NEWBURGH
				WASTEWATER TREATMENT PLANT (WWTP) ADMIN BUILDING RENOVATION
				BID NUMBER 7.24 ARCADIS PROJ. NO. 30183827
	EXHAUST HOOD, (E) 125 CFM	EF-3 475 CFM —	X	Image: Constraint of the second sec
			UPPER ROOF	NO. DATE ISSUED FOR BY
40 C	FM			COPYRIGHT: ARCADIS OF NEW YORK, 2014 INC. DATE: SEPTEMBER 2024 PROJECT NO.: 30183827
		8x8	MAIN ROOF	FILE NAME:         DESIGNED BY:       A. DSOLA         DRAWN BY:       L. BANGARU         CHECKED BY:       V. VITALE
				SHEET TITLE HVAC
-1 -3	125 CFM EF-2			AIR RISER DIAGRAMS / VENTILATION SCHEDULE
F	RTU-2 / EF	<sup>-</sup> -2, EF-3	ISI FLUUK	SCALE: NOT TO SCALE
		, _		H-51 SHEET <u>33</u> OF <u>51</u>

![](_page_33_Figure_0.jpeg)

6	ARCADIS
	LEGAL ENTITY: ARCADIS OF NEW YORK, INC.
SECURE SLEEVE IN WALL WITH CONSTRUCTION ADHESIVE, ALL AROUND, BOTH SIDES	CONSULTANTS
PLATES (BOTH SIDES WHERE EXPOSED) SEALANT (TYP)	
PIPE SLEEVE, MIN 1 PIPE SIZE LARGER THAN PIPE/INSULATION	
MASONRY WALL	SEALS
V	* * * A CONTROL
U INTERIOR MASONRY WALL	
	BANCE COUNT NEW YORK
	CITY OF NEWBURGH
	WASTEWATER TREATMENT PLANT
30° DUCT AS REQUIRED PER SMACNA	(WWTP) ADMIN BUILDING
"B" MAX AS INDICATED ON CONTRACTING	RENOVATION
FLOW SEAL CLASS "A" (TYP)	BID NUMBER 7.24
NOTE: TRANSITION TYPICAL AFTER EACH TAKE-OFF(S) WHERE CHANGE IN DUCT SIZE IS INDICATED.	
SINGLE OR DOUBLE SIDED TRANSITIONS (TYP)	
SCALE: NOT TO SCALE	NO. DATE ISSUED FOR BY
	COPYRIGHT: ARCADIS OF NEW YORK, 2014 INC.
	DATE: SEPTEMBER 2024
	PROJECT NO.:         30183827           FILE NAME:
	DESIGNED BY: A. DSOLA DRAWN BY: L. BANGARU
RUNIT	CHECKED BY: V. VITALE
AIRFLOW	SHEET TITLE HVAC
EQUIPMENT RAILS REFRIGERANT LINES	
CONDENSATE LINES	DETAILS 1
ROOF CAP AND CURB	
TS	
SYSTEM OUTDOOR UNIT	SCALE: NOT TO SCALE
TO SCALE	H-52 Sheet 34 OF 51

![](_page_34_Figure_0.jpeg)

Docs://AUS-30183. 3D-WPCP B22 m4 Autodesk Rehah/H-:

![](_page_34_Figure_2.jpeg)

![](_page_34_Figure_9.jpeg)

![](_page_34_Figure_10.jpeg)

![](_page_34_Figure_11.jpeg)

DUCT GAGE	
28, 26 24, 22, 20 18, 16	

1	1/2"x16 GA 1"x1/8"
TABLE 4-4	ŀ
	ALLOWA LOAD PE FASTENE

![](_page_34_Picture_16.jpeg)

![](_page_34_Picture_17.jpeg)

![](_page_35_Figure_0.jpeg)

desk Docs://AUS-30183827-Newburgh WPCP Adm ההיו סר ואוסרם בסס היו

![](_page_36_Figure_0.jpeg)

![](_page_37_Figure_0.jpeg)

<u>0</u>

m

2

3

ABBREVIATION         DESCRIPTION           AFF         ABOYE FINISHED FLOOT           AN         ADD NEUTRALIZER           ANCH         ANCHTECTURAL           AVD         ANCHTECTURAL           BFP. REZ         BACKILGW PREVENTRI- DOUBLE CHECK DETECTOR ASSEMBLY           BFP. REZ         BACKILGW PREVENTRI- ROUGE DETECTOR ASSEMBLY           BC         CONV           CL         CONTRUE           CL         CONTRUE           CON         CLEANOUT           CON         CONTRUETOR           CON         CONTRUETOR           DIA         DIAWETER           DIA         DIAWETER           DIA         DIAWETER           DIA         DOWN (PENTRETATES FLOOR SLAB)           DIA         DIAWETER           DIA         DIAWETER           DIA         DIAWETER           DIA         DIAWETER <th>IE SYMBOLS AND ABBREVIATIONS LIST ON T ANDARD GUIDE INTENDED FOR GENERAL U L THE SYMBOLS AND ABBREVIATIONS CONT SED ON THIS PARTICULAR PROJECT AND SH L FLOOR DRAINS ARE AT LOW POINTS OF FI USH WITH THE FINISHED FLOOR. L FLOOR DRAINS FOR EQUIPMENT SHALL BE DACENT TO THE EQUIPMENT PADS IN THE A IE DRAWINGS. L BRANCH PIPING TO EQUIPMENT OR FIXTU</th>	IE SYMBOLS AND ABBREVIATIONS LIST ON T ANDARD GUIDE INTENDED FOR GENERAL U L THE SYMBOLS AND ABBREVIATIONS CONT SED ON THIS PARTICULAR PROJECT AND SH L FLOOR DRAINS ARE AT LOW POINTS OF FI USH WITH THE FINISHED FLOOR. L FLOOR DRAINS FOR EQUIPMENT SHALL BE DACENT TO THE EQUIPMENT PADS IN THE A IE DRAWINGS. L BRANCH PIPING TO EQUIPMENT OR FIXTU
AFF     ADOVE FINISHED FLOOR     N       AN     ACID NEUTRALIZER     1.       ANCH     ACIDITECTURAL     1.       ANB     AUTOMATO VACUUM BEBACER     0.       BEF- JOEDA     BACKPLOW PREVENTER - DOUBLE CHECK DETECTOR ASSEMBLY     2.       BUP     BOTTOM OF PIPE     3.       BUP     BOTTOM OF PIPE     3.       CL     CONTRELINE     3.       CL     CONTRELINE     3.       CON     CLEANOUT     4.       CON     CLEANOUT     5.       CON     CLEANOUT     5.       CON     CONNUCTION     6.       DIA     DAMATER     6.       DN     DOVIN (PENETRATES FLOOR SLAB)     7.       BR     DRAIN     7.       EL     ELEVATION     8.       EVEN     ELEVATION     8.       EVEN     ELEVATION     8.       FD     FLOOR PENNUT     7.       FD     FLOOR PENNUT     8.       FD     FLOOR PENNUT     8.	IE SYMBOLS AND ABBREVIATIONS LIST ON T ANDARD GUIDE INTENDED FOR GENERAL U L THE SYMBOLS AND ABBREVIATIONS CONT SED ON THIS PARTICULAR PROJECT AND SH L FLOOR DRAINS ARE AT LOW POINTS OF FI USH WITH THE FINISHED FLOOR. L FLOOR DRAINS FOR EQUIPMENT SHALL BE DACENT TO THE EQUIPMENT PADS IN THE A IE DRAWINGS. L BRANCH PIPING TO EQUIPMENT OR FIXTU
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ARCH         ARCHITECTURAL         1.           AVE         AUTOMATIC VACUUM BREARER         2.           BFP-DODA         BACKFLOW PREVENTER - DOUBLE CHECK DETECTOR ASSEMBLY         2.           BCP         BOTTOM OF PRE         2.           GL         CENTERLINE         3.           GLG         CELLING         4.           GLG         CELLING         4.           GCO         CLEANOLT         4.           GOO         CLEANOLT         4.           GONT         CONTON         CONTON           GONT         CONTON         CONTON           GON         CONN (PENTRATES FLOOR SLAB)         7.           DIA         DIANETR         8.           DIA         DOMN (PENTRATES FLOOR SLAB)         7.           DR         DRNIN         7.           EES         EMERGENCY EVENASH AND SHOWER         8.           ENST         EXTINO         7.           TO         FLCOR CLEANOLT         7.           TO         FLCOR CLEANOLT         7.           GOLONS PER HOUR         1.         A.           GON         CALLONS PER HOUR         7.           GON         CALONS PER HOUR         7.	IE SYMBOLS AND ABBREVIATIONS LIST ON T ANDARD GUIDE INTENDED FOR GENERAL U L THE SYMBOLS AND ABBREVIATIONS CONT GED ON THIS PARTICULAR PROJECT AND SH L FLOOR DRAINS ARE AT LOW POINTS OF FI USH WITH THE FINISHED FLOOR. L FLOOR DRAINS FOR EQUIPMENT SHALL BE DJACENT TO THE EQUIPMENT PADS IN THE A IE DRAWINGS. L BRANCH PIPING TO EQUIPMENT OR FIXTU
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BPP-PPZ     BACKFLOW PREVENTER - REDUCED PRESSURE ZONE ASSEMBLY     P     P       BOP     BOTTWO OF PIPE     A       CL     CENTERLINE     A       CLG     CELING     A       CON     CONNECT/CONNECTION     A       CONN     CONNECT/CONNECTION     A       CONN     CONNECT/CONNECTION     C       GW     CONNECT/CONNECTION     C       GW     CONNECT/CONNECTION     C       GW     CONNECT/CONNECTION     C       GW     CONNATER     C       DIA     DANETER     C       DN     DOWN (PENETRATES FLOOR SLAB)     P       DR     DAN     7.5       FES     ELENGERCY FEYTWASH AND SHOWER     8.4       EWH     ELECTRO WATER HEATER     P       FCO     FLOOR DEANN     7.5       FCO     FLOOR DEANN     7.5       FCO     FLOOR DEANN     7.5       GAL     GALLONS PER HOUR     7.5       GAL     GALLONS PER HOUR     7.5       GAL     GALLONS PER HOUR     7.5       GPM     GALLONS PER HOUR     7.5       GPM     GALLONS PER HOUR     7.5       GPM     GALLONS PER HOUR     7.5       HB     HOF EBEBBA     7.5 <td>L FLOOR DRAINS ARE AT LOW POINTS OF FI USH WITH THE FINISHED FLOOR. L FLOOR DRAINS FOR EQUIPMENT SHALL BE DJACENT TO THE EQUIPMENT PADS IN THE A IE DRAWINGS. L BRANCH PIPING TO EQUIPMENT OR FIXTU</td>	L FLOOR DRAINS ARE AT LOW POINTS OF FI USH WITH THE FINISHED FLOOR. L FLOOR DRAINS FOR EQUIPMENT SHALL BE DJACENT TO THE EQUIPMENT PADS IN THE A IE DRAWINGS. L BRANCH PIPING TO EQUIPMENT OR FIXTU
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EES         EMERGENCY EYEWASH AND SHOWER         8. A           EWH         ELCTNIC WATER HEATER         8. A           ENST         EXISTING         8. A           FCO         FLOOR CLEANOUT         7.           FD         FLOOR DRAIN         10. A           GAL         GALLONS         11. A           GPH         GALLONS PER HOUR         11. A           GPH         GALLONS PER HOUR         11. A           GPM         GALLONS PER HOUR         11. A           HB         HOSE BIB         11. A           HB         HOSE BIB         11. A           HW         HOT WATER         13. A           HS         HOSE STATION         14. A           IE         INVERT ELEVATION         15. T           LAV         LAVATORY         15. T           MAX         MAXIMIM         16. V           MS         MOP SINK         7. AC           NPW         NON-POTABLE WATER         17. AC           NPW         NON-POTABLE WATER         17. AC           NPW         NON FREEZE WALL HYDRANT         18. S           SPD         SUMP PUMP DISCHARGE         19. AU           PRV         POTABLE WATE	HERE DIRECTION OF FLOW IS FROM HORIZO
EWH         ELECTRIC WATER HEATER         E           EXIST         EXISTING         8. A           FOO         FLOOR CLEANOUT         7. C           FD         FLOOR DAIN         7. C           GAL         GALLONS         11. A           GPH         GALLONS PER HOUR         12. A           GPH         GALLONS PER MINUTE         12. A           HB         HOSE BIBB         13. A           HP         HGH FOINT         13. A           HB         HOSE STATION         14. A           IE         INVERT ELEVATION         15. T           MAX         MAXIMUM         6. Y           MAX         MAXIMUM         6. Y           MAX         MAXIMUM         6. Y           MS         MOS PINK         7. A           MAX         MAXIMUM         16. Y           MS         MOP SINK         7. A           MS         MON POTABLE WATER         17. A           MS         MON POTABLE WATER         7. A           NTS         NOT TO SCALE         18. S           SPD         SUMP PUMP DISCHARGE         9. Y           PRV         POTABLE WATER         7. T           S	L VENT RISERS RUN STRAIGHT THROUGH R
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SKSINKSTSTORM DRAIN22. A TTMVTHERMOSTATIC MIXING VALVE7TPVTRAP PRIMER VALVE23. P PTWTEPID WATER MIXING VALVE24. R	)T AND TEPID WATER PIPING SHALL BE ELEC QUIRED SPECIFIED WATER TEMPERATURE.
STSTORM DRAIN22. A TTMVTHERMOSTATIC MIXING VALVETTPVTRAP PRIMER VALVE23. PTWTEPID WATERPTWMVTEPID WATER MIXING VALVE24. R	
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TWMV     TEPID WATER MIXING VALVE     24. R	NETRATIONS.
	FER TO CODE COMPLIANCE CATEGORY ON
TYP TYPICAL A	DITIONAL DESIGN INFORMATION REQUIRED
UG UNDERGROUND 25. C	NTRACTOR SHALL FILE AND OBTAIN ALL PE
UP UP (PENETRATES FLOOR SLAB)	FER IO NOTE / ON SHEET G-02.
V VENT	
VB VACUUM BREAKER	
W WASTE	
WC WATER CLOSET	
WCO WALL CLEAN OUT	
WHA WATER HAMMER ARRESTER	
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4

6	ARCADIS
	LEGAL ENTITY: ARCADIS OF NEW YORK, INC.
IOTES	CONSULTANTS
NS LIST ON THIS SHEET IS A COMPREHENSIVE R GENERAL USE ON ALL PROJECTS. THEREFORE NOT ATIONS CONTAINED IN THIS LIST ARE NECESSARILY JECT AND SHOULD BE USED FOR CLARIFICATION ONLY. POINTS OF FLOORS AND SHALL BE INSTALLED R. ENT SHALL BE FIELD COORDINATED AND LOCATED ADS IN THE APPROXIMATE LOCATIONS SHOWN ON NT OR FIXTURES SHALL BE PROVIDED WITH IOWN, OR NOT SHOWN ON DRAWINGS. D WITHIN WALLS, PIPE SPACES AND HUNG L SPACES OR WHERE NOTED. NAGE PIPING SHALL BE MADE BY THE USE OF 45 D DEGREE WYES WICO'S OR BY A COMBINATION OF HALL BE NO DOUBLE WYES IN THE HORIZONTAL ENDS MAY BE USED IN DRAINAGE LINES ONLY (ROM HORIZONTAL TO THE VERTICAL. THROUGH ROOF SHALL HAVE AN APPROVED LLED BELOW ROOF. 120 VOLTS UNLESS OTHERWISE SPECIFIED. IDED WHERE REQUIRED. HECHANISMS SHALL BE PIPED THROUGH UNION AT A MIN. OF 1/8" PER FT UNLESS OTHERWISE L BE PROVIDED AT THE BASE OF EACH SOIL *LEADER GE PIPING, HOT, COLD AND TEPID WATER PIPING LL FLOOR DRAINS EXCEPT WHERE NOTED.	SEALS
IN HEADERS SHALL BE TAKEN OFF ABOVE THE ND THE VENT PIPE SHALL RISE AT AN ANGLE ND VALVES IN FINISHED WASHROOMS SHALL BE IESTIC HOT WATER SHALL BE 140°F . BE PROVIDED WITH 1/2" TRAP PRIMER CONN. RUN PRIMER VALVE TO ALL FLOOR DRAINS (EXCEPT	
PING IN & BELOW SLAB AS REQ'D. CONTRACTOR G, SUPPORTS AND APPURTENANCES TO COMPLETE IN HEADERS SHALL BE TAKEN OFF ABOVE THE ND THE VENT PIPE SHALL BISE AT AN ANGLE NOT	NO. DATE ISSUED FOR BY COPYRIGHT: ARCADIS OF NEW YORK,
HALL BE ELECTRICALLY HEAT TRACED TO MAINTAIN MPERATURE. ON TO 4" PRIOR TO PENETRATING THE ROOF. E NO LESS THAN 12" FROM INSIDE THE BUILDING'S ANICAL LINK SEALS FOR ALL FLOOR, ROOF AND WALL ATEGORY ON ARCHITECTURAL DRAWINGS FOR N REQUIRED UNDER THIS CONTRACT. BTAIN ALL PERMITS REQUIRED FOR THE WORK. 2.	DATE: SEPTEMBER 2024 PROJECT NO.: 30183827 FILE NAME: DESIGNED BY: S. SLIM DRAWN BY: S. BURTE CHECKED BY: F. ANDRADE SHEET TITLE PLUMBING NOTES AND ABBREVIATIONS
	SCALE: 12" = 1'-0" P-01 SHEET <u>38</u> OF <u>51</u>

![](_page_38_Figure_0.jpeg)

6	ARCADIS
	LEGAL ENTITY: ARCADIS U.S., INC.
	CONSULTANTS
	SEALS
	THE OF NEW LOPA
4" UG SAN	
EXIST. FCO REMOVE EXIST. HW & CW AND ALL ASSOCIATED PLUMBING PIPING	ORANGE COUNTY, NEW
AND FITTINGS	CITY OF NEWBURGH
AND ALL ASSOCIATED PLUMBING PIPING AND FITTINGS. CAP CW, HW & VENT @CLG BACK TO MAIN ABANDON UG SAN PIPING.	
CAP 3" SAN AT FLOOR FOR FUTURE SAN CONN.	WASTEWATER
	TREATMENT PLANT (WWTP) ADMIN
AND ALL ASSOCIATED PLUMBING FIXTORES AND ALL ASSOCIATED PLUMBING PIPING AND FITTINGS. CAP CW, HW & VENT @CLG BACK TO MAIN ABANDON UG SAN PIPING.	RENOVATION
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- REMOVE EXIST HW & CW AND	
ALL ACCOUNTED TEOMINATION IN A AND FITTINGS. CAP CW, HW & VENT @CLG BACK TO MAIN. 2" UG SAN	NO. DATE ISSUED FOR BY
CAP 2" SAN A I FLOOR FOR FUTURE SAN CONNECTION	COPYRIGHT: ARCADIS U.S., INC. 2014
4" V UP THRU ROOF	DATE: SEPTEMBER 2024 PROJECT NO.: 30183827
	DESIGNED BY: S. SLIM
	CHECKED BY: F. ANDRADE SHEET TITLE
- 6" UG ST TO SITE STORM	PLUMBING
	FIRST FLOOR PLAN
F G	
PLAN 8' PLAN NORTH	
	SCALE:
	1/4" = 1'-0" P-10
	SHEET <u>39</u> OF <u>51</u>

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DRAWN BY:	S. BURTE								
CHECKED BY:	F. ANDRADE								
SHEET TITLE									
	PLUMBING								
K	JUF FLAN								
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SHEET	40 OF 51	-							
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![](_page_40_Figure_0.jpeg)

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	CITY (	YORK DF NEWBURGH							
	WAS	TEWATER							
	TREAT (WW	MENT PLANT (TP) ADMIN							
	B REN	UILDING NOVATION							
BID ARC	NUMBER 7.24 ADIS PROJ.	4 NO. 30183827							
NO.	DATE	ISSUED FOR	BY						
2014		JADIS 0.3., INC.							
DATE	:	SEPTEMBER 2024							
PRO. FILE	JECT NO.: NAME:	30183827							
DESI	GNED BY:	S. SLIM							
DRAV	WN BY:	S. BURTE							
CHEC	CKED BY:	F. ANDRADE							
SHE	ET TITLE								
PLUMBING									
ΠΙΟΕΠ ΡΙΑΦΠΑΙΝΙ									
<u>e</u> ^^									
JUP									
		P-30							
S	SHEET 4	1 OF 51	-						

Е

	PLUMBING FIXTURE SCHEDULE									
	DESCRIPTION	SERVICES								
		TRAP	S/W	VENT	CW	HW				
LAV	LAVATORY	2"	2"	1 1/2"	3/4"	3/4"				
WC	WATER CLOSET	-	4"	2"	1-1/4"	-				
SK	PANTRY SINK	2"	2"	2"	3/4"	3/4"				
MS	MOP SINK	2"	2"	2"	3/4"	3/4"				
SH	SHOWER	2"	2"	2"	3/4"	3/4"				
EES	EMERGENCY EYEWASH SHOWER	-	-	-	-	-				
AN	ACID NEUTRALIZER	-	1 1/2"	-	-	-				

D

WATER HEATER SCHEDULE														
	LOCATION	SERVICE	STYLE	CAPACITY	INPUT PERFORMANCE			ELECTRICAL		WATER				
TYPE				NOMINAL		SUPPLY	RECOVERY RATE				PHASE	NPT		REMARKS
				(GAL)	(KW)	MBH/IN (WG)	(GPH)	(GPM)	(°F)	VOLTAGE	THACE	CW	нw	
EWH-1	MECHANICAL ROOM	DOMESTIC HOT WATER	ELECTRIC TANK	119	24	-	98.4	-	140	480	3	1 1/4"	1 1/4"	1,2
NOTES:														
1. PRO 2. PRO	<ol> <li>PROVIDE 100 MICRON Y-STRAINER ON COLD WATER INLET.</li> <li>PROVIDE THERMOSTATIC MIXING VALVE ASSE APPROVED.</li> </ol>													

![](_page_41_Figure_4.jpeg)

тw	REMARKS	
1 * *		
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1 1/4"		
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		RCAD	S	
LEG ARC	GAL ENTITY: CADIS U.S., IN	NC.		
CON	NSULTANTS			
SEA	ILS	DE NEW		
	STATE	MEIDA AND PX		
	A LAN			
	ENSE			
	PRO	ESSIONAL 8/30	/2024	
	ORAI	NGE COUNTY, NEW YORK		
	CITY	OF NEWBURGH		
	WAS	STEWATER		
	TREAT	MENT PLANT	-	
	(WV B			
	RE	NOVATION		
BID	NUMBER 7.2	24		
ARC	CADIS PROJ.	NO. 30183827		
NO.	DATE	ISSUED FOR	BY	
2014	TRIGHT: AF	ט פועאטיס U.S., INC.		
DATE	Ξ:	SEPTEMBER 2024		
PRO	JECT NO.:	30183827		
FILE	NAME:			
	GNED BY: WN BY <sup>.</sup>	S. SLIM		
CHEC	CKED BY:	F. ANDRADE		
SHE	ET TITLE			
		PLUMBING		
	00			
SCA	LE:	12" = 1'-0"		
		P-50		
	SHEET	42 OF 51		
			-	

![](_page_42_Figure_0.jpeg)

Autodesk Docs://AUS-301838 Rehab/P-3D-WPCP\_R22.rvt

DR	FLOORS

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SEA	ILS				
	AATEU	NEIDA A OR			
	* *				
	DE Hend	Charles (			
	NSE LE				
	PROF	ESSIONAL	1/2024		
	ORAN	IGE COUNTY, NEW	J/2024		
	CITY				
	on r c				
	WAS	STEWATER	_		
	IREAI				
	(VV VV R				
	RFN				
BID	NUMBER 7.24	4			
ARC	ADIS PROJ.	NO. 30183827			
NO	DATE				
NO.	DATE	ISSUED FUR			
COP	YRIGHT: ARG	CADIS OF NEW YORK,			
2014	INC				
ΠΔΤΓ	<b>.</b> .				
		30183827			
FILF	NAME:				
DESI	GNED BY:	S. SLIM			
DRAV	WN BY:	S. BURTE			
CHEC	CKED BY:	F. ANDRADE			
SHE	ET TITLE				
PLIMRING					
DETAILS					
SCALE					
30F	NTS				
 P_51					

SHEET

43 OF

51

ARCADIS

LEGAL ENTITY:

CONSULTANTS

ARCADIS OF NEW YORK, INC.

		1	2	
	ELECTRIC	CAL SYMBOLS	PB	PULL BOX: SIZE AS REQUIRED BY N.E.C.
		MOTOR STARTER/CONTROLLER (NON-COMBINATION - COMBINATION - MANUAL) RV DENOTES REDUCED VOLTAGE	) К1 ОТ	LOCK FOR RESPECTIVE KEY INTERLOCK WITH KEY CAPTIVE IN LOCK OVERTEMPERATURE DEVICE
E	$\boxtimes$	LOCAL CONTROL PANEL WITH CONTROLLERS FURNISHED BY EQUIPMENT VENDOR.	RTD	RESISTIVE TEMPERATURE DEVICE MOTOR SPACE HEATER
	I−2 € GF/SS/WP	DUPLEX CONVENIENCE RECEPTACLE, 2 POLE, 3 120 VOLTS A.C. 20 AMP RECEPTACLE DESIGNAT WITH NEMA 5–20R, FIRST NUMBER DENOTES PA SECOND NUMBER DENOTES CIRCUIT NUMBER. GF-DENOTES GROUND FAULT TYPE. SS-DENOTES SURGE SUPPRESSION TYPE. WP-DENOTES WEATH PROOF COVER IN USE TYPE	WIRE, IONS NEL, S HER	ELECTRIC MOTOR (NUMBER INDICATES HORSEPOWER). PROVIDE CHANNEL SUPPORT. FOR 120 VOLT BRANCH CIRCUIT MOTORS, NUMERALS DENOT DISTRIBUTION OR LIGHTING PANEL AND BRAN
	θ	SINGLE CONVENIENCE RECEPTACLE, 2 POLE, 3 WIRE. REFER TO DRAWINGS FOR AMPERE AND VOLTAGE RATING.		MOTORIZED VALVE WITH CONTROLLER
		POWER RECEPTACLE, 3 PHASE, 4 WIRE, 480V A.C. WITH DISCONNECT SWITCH. REFER TO DRAWINGS FOR AMPERE RATING.		MOTORIZED DAMPER WITH CONTROLLER
	₽-	POWER RECEPTACLE, 2 POLE, 3 WIRE 250 VOLT		GROUND TEST POINT GROUND ROD
D	Δ	RJ45 DATA OUTLET	· →	GROUND GRID CABLE CONNECTION
	<u>୍ ଟା</u> ଟା	POWER ON-OFF SNAP SWITCH, 1PH, 120V AC,		GROUND
	S LE LE S <sup>a</sup>	20A SINGLE POLE SWITCH - LOWER CASE LETTER		#4/0 GROUND CABLE BURIED 2'–6" BELOW GRADE
	S <sub>2</sub>	TWO POLE SWITCH	PFD 	FUSE-PFD DENOTES PULL FUSE DISCONNECT TYPE
	S <sub>3</sub>	THREE-WAY SWITCH	PC	PHOTOCELL
	S₄ S <sub>M</sub>	FOUR-WAY SWITCH SINGLE POLE MANUAL STARTER		LED LIGHTING FIXTURE - CEILING OR PENDAN
	MS	TWO OR THREE POLE MANUAL STARTER, 20A	1-3 0	MOUNTED. SEE LIGHTING FIXTURE SCHEDULE FIRST NUMERAL DENOTES LIGHTING PANEL (L SECOND NUMBER DENOTES BRANCH CIRCUIT
C	LP1-2 J ///// 10	LETTERS AND NUMERALS INDICATE PANEL AND CIRCUIT NUMBER (LP1-2). CROSS LINES INDICAT NUMBER OF CONDUCTORS. HALF HASH MARKS INDICATES NEUTRAL. NUMBER DENOTES WIRE SIZ WHEN NOT #12 AWG. CONTINUE CONDUIT AND W RUN FROM BOX TO DEVICE IN ROOM OR AREA A NOTED BY BRANCH CIRCUIT NUMBER #10 AWG WIRING SHALL BE USED FOR RUNS BETWEEN PANEL AND FIRST LIGHTING FIXTURE OR RECEPTACLE EXCEEDING 50 FT, UNLESS OTHERW NOTED ON DRAWING.	TE IRE AS ISE	LED LIGHTING FIXTURE WITH BATTERY PACK OR PENDANT MOUNTED. SEE LIGHTING FIXTUF SCHEDULE FOR TYPE. FIRST NUMERAL DENOT LIGHTING PANEL (LP1), SECOND NUMBER DEN BRANCH CIRCUIT NUMBER.
		INDICATES GROUND CONDUCTOR INDICATES HOMERUN AND CONDUIT TAG; REFER TO ONE LINE AND INTERCONNECTION DIAGRAM	0	FIXTURE. SEE LIGHTING FIXTURE SCHEDULE F TYPE.
		PUSHBUTTON STATION		CEILING OR PENDANT MOUNTED LIGHTING FIX WITH QUARTZ BACKUP. SEE LIGHTING FIXTUR SCHEDULE FOR TYPE.
		PUSHBUTTON STATION WITH LOCK-OUT FEATURE SELECTOR SWITCH	Ю	WALL MOUNTED LIGHTING FIXTURE. SEE LIGHT FIXTURE SCHEDULE FOR TYPE.
	<b>X</b> CS	INDICATING LIGHT CONTROL STATION	Ą	POLE OR STANCHION MOUNTED LIGHTING FIX SEE LIGHTING FIXTURE SCHEDULE FOR TYPE.
В		HAND-OFF-AUTOMATIC SELECTOR SWITCH CONTROL STATION	$\Delta \omega$	TWO (2) POLE OR STANCHION MOUNTED LIGH
	OR	LOCAL-OFF-REMOTE SELECTOR SWITCH CONTRO STATION DEVICE LOCATED IN FIELD AT OR NEAR MOTOR	GF	POLE MOUNTED FIXTURE WITH GF RECEPTACL
	● ■ VCS	DEVICE LOCATED IN CONTROL PANEL CONTROL STATION FURNISHED BY EQUIPMENT VENDOR		2 LAMP SELF CONTAINED DC EMERGENCY LIC SEE LIGHTING FIXTURE SCHEDULE FOR DESCR LETTER DENOTES FIXTURE TYPE. CONNECT TO LIGHTING CIRCUIT AHEAD OF SWITCH.
	(A) (AS) (V) (VS)	AMMETER – AMMETER SWITCH VOLTMETER – VOLTMETER SWITCH	НØ	EXIT SIGN, BATTERY BACKUP TYPE. CONNECT TO ROOM LIGHTING CIRCUIT AHEAD
	MF	METERING FUNCTIONS		OF SWITCH FIXTURE DESIGNATION SYMBOL. SEE LIGHTING
	ر 100/40	LINE SWITCH DISCONNECT - UNFUSED OR FUSED DENOTES FUSING, ONLY WHERE INDICATED. FIRST NUMBER DENOTES SWITCH AMP RATING. SECOND NUMBER DENOTES FUSE SIZE WHEN PROVIDED.	$\frac{D}{150}$	SCHEDULE FOR DESCRIPTION AND TYPE. ALL SHOWN IN A ROOM WITH THIS SYMBOL SHALL INDICATED BY LETTER; NUMBER IN SYMBOL II LAMP WATTAGE AND NUMBER OF LAMPS WHE THAN ONE (UNLESS OTHERWISE NOTED). NU
		VARIABLE FREQUENCY DRIVE	ст 🗲	FLOOR OR AS NOTED. CURRENT TRANSFORMER
A		TERMINAL BOX; SIZE AS REQUIRED BY N.E.C. AN TO ACCOMODATE ALL TERMINATIONS ON TERMINA BLOCKS. TERMINATIONS TO INCLUDE SPARE WIRI	$ \begin{array}{c} Y \\ AL \\ NG. \end{array} $	POTENTIAL TRANSFORMER
	MMD	MULTI FUNCTIONAL METERING DEVICE	П	UNIT HEATER-NUMERAL DENOTES LIGHTING PANEL AND BRANCH
	SPD	SURGE PROTECTION DEVICE	☐ 1-24 ♠	CIRCUIT NUMBER
		LIGHTNING ARRESTOR		

ARREVIATIONS

VOLT DENOTES BRANCH

3

ELOW

NECT

PENDANT EDULE FOR TYPE. NEL (LP1), RCUIT NUMBER.

PACK – CEILING FIXTURE DENOTES R DENOTES

ULE FOR

G FIXTURE XTURE

LIGHTING

G FIXTURE. TYPE.

D LIGHTING

PTACLE

CY LIGHTING UNIT. DESCRIPTION. ECT TO ROOM

AHEAD

HTING FIXTURE E. ALL FIXTURES SHALL BE OF TYPE BOL INDICATES WHERE MORE ). NUMBER BELOW ABOVE FINISHED

		4			
و م ا	$\frac{100}{30}$ $2P$	(FRAME SIZE) (TRIP SIZE) THERMAL-MA 2P DENOTES	) - GNETIC BREA 2 POLE	KER	
נ ו ע ר ו ו ו	) <u>7</u> MCP	(CONTINUC (MOTOR CIRCU AC COMBINAT NON-REVERSU MAGNETIC BR	DUS RATING) JIT PROTECTO TON FULL VO ING STARTER EAKER	DR) LTAGE WITH	
3 2 1 1		TRANSFORMENT THE THE DRA INDICATES NE INDICATES EX INDICATES CO EQUIPMENT/C	R- TYPE ANE WINGS AND I W EQUIPMEN ISTING EQUIP ONCEALED OR ONDUIT	O SIZE AS NOTED ON N SPECIFICATIONS T/CONDUIT MENT/CONDUIT UNDERGROUND	
	- ssc	INDICATES AU WITH SOLID S ACCESSORIES	TOMATIC TRA	ANSFER SWITCH DLS AND	
	800 800 (600P)	(FRAME SIZE (SENSOR RATIN DENOTE PLUG R DRAWOUT PO RMS TYPE SO	) NG) RATING WER CIRCUIT DLID STATE T	BREAKER WITH RIP	
INSTRU	MENTS				
PS 123	INSTRUMENT DEV LETTERS IDENTIF FUNCTION, NUME INDICATED DENC	VICE: Y DEVICE BERS WHERE TE LOOP	AIT	ANALYSIS TRANSMITTER (AE DENOTES ANALYSIS ELEMENT)	
PS	PRESSURE SWITC DENOTES PRESS HIGH AND PSL I	CH (PSH URE SWITCH DENOTES		TEMPERATURE TRANSMITTER (TE DENOTES TEMPERATURE ELEMENT)	
FS	FLOW SWITCH (F FLOW SWITCH HI	SH DENOTES GH AND FSL	TS	DENOTES TEMPERATURE SWITCH HIGH AND TSL DENOTES TEMPERATURE SWITCH LOW)	
ZS	LIMIT SWITCH	Switch Lowy	LS	LEVEL SWITCH (LSH DENOTES LEVEL SWITCH HIGH AND LSL DENOTES LEVEL SWITCH LOW)	
PIT	PRESSURE TRAN DENOTES INDICA	SMITTER (I TING TYPE)	MV	MOTORIZED VALVE	
	PUSH TO TEST INDICATING LIGH "A" DENOTES AI LETTER "R" DEN	T LETTER MBER COLOR OTES RED	SV (III)	SOLENOID VALVE LEVEL TRANSMITTER (LE	
	COLOR AND "G" GREEN COLOR	DENOTES		DENOTES LEVEL ELEMENT)	
SL	STROBE LIGHT		FIT	FLOW TRANSMITTER (FE DENOTES FLOW ELEMENT)	
MISCEL	LANEOUS	<u>SPECIAI</u>	<u> </u>	EMS	
ACP	ALARM CONTROL	PANEL	$\sum_{i=1}^{n}$	SPEAKER HORN $H = HORN$ $PS = PAGING SPEAKER$ $C = CEILING MOUNTED$ $SPEAKER$	
FACP	FIRE ALARM COI PANEL	NTROL	A/V	AUDIO VISUAL DEVICE	
FJ	FIRE ALARM SYS LIGHT/HORN CO	STEM STROBE MBINATION	A/V-S	AUDIO VISUAL STATION	
F	FIRE ALARM SYS MANUAL PULL S	TATION	R	ALARM BEACON	
SD	SMOKE DETECTO D = DUCT TYPE (BY HVAC CONT	R RACTOR)		DUPLEX ETHERNET JACKET	
SD	SMOKE DETECTO A= AREA TYPE	R		TELEPHONE JACKET	
FD	FLAME DETECTO	R			
HD	HEAT DETECTOR RATING (135 OR	XXX = 200)	EPC	EMERGENCY PULL CORD	

AC	ALTERNATING CUP
ACSR	ALUMINIUM CONDU
	STEEL-REINFORCE
ARPF	ASH RECYCLING
	PROCESSING FACI
AFF	ABOVE FINISH FLO
AFG	ABOVE FINISHED
ATC	AUTOMATIC TEMP
	CONTROL PANEL
ATS	AUTOMATIC TRAN
AWG	AMERICAN WIRE O
BKR	BREAKER
С	CONDUIT
CBV	CABLE BY VENDO
	INSTALLED BY CO
СКТ	CIRCUIT
CNT	CONTROL
СР	CONTROL PANEL
CPT	CONTROL POWER
СТ	CURRENT TRANSF
DP	DISTRIBUTION PAN
EC	EMPTY CONDUIT
EGC	EQUIPMENT GROU
EF	EXHAUST FAN
EL	ELEVATION
EXP	EXPLOSION PROOI
EXIST	EXISTING
FDR	FEEDER
FVNR	FULL VOLTAGE NO
G OR GND	GROUND
GF	GROUND FAULT
H/0/A	HAND-OFF-AUTO
HMCS	HVAC MONITORIN
	SYSTEM
JB	JUNCTION BOX
LCP	LOCAL CONTROL
LP	LIGHTING PANELB
LTG	LIGHTING
М	MOTOR
мсс	MOTOR CONTROL
МСМ	ONE THOUSAND (
MMD	MICROPROCESSOR
	METERING DEVICE
MTS	MANUAL TRANSFE
NA	NON-AUTOMATIC

ANSI	DEVI	CE	REL
(27)	25 25C	_	AUTO SYNC
$\bigcirc$	26Q 27	_	
	30 32	_	ANNUN
	U R 33	_ _ _	UNDER REVERS POSITIO
	40 43 46	-	LOSS ( MANUA
	47 49	-	PHASE
	т М	_	DENOTI SPOT DENOTI
	50,51	-	INSTAN OVERC
	G	_	DENOTI

### GENERAL NOTES

- 1. THE SYMBOLS AND ABBREV GUIDE INTENDED FOR GENEI SYMBOLS AND ABBREVIATIC PARTICULAR PROJECT AND
- 2. ALL MATERIALS AND EQUIP REQUIREMENTS SPECIFIED I CORROSIVE AND CLASSIFIEI
- 3. ALL WORK AT THE PROJEC SPECIFIED IN DIV 26.
- 4. PROVIDE JUNCTION BOX FO LIMIT SWITCHES, SMOKE DE PROVIDE ALL HARDWARE FO
- 5. PROVIDE INDEPENDENT SUP PANELS, ETC. WHERE NO V
- 6. EQUIPMENT SIZES AND LOC DETERMINED BY EQUIPMENT
- 6. CONTRACTOR SHALL FILE / ON SHEET G-02.

-					
I		6	ARCADIS		
-			LEGAL ENTITY: ARCADIS OF NEW YORK, INC.		
RRENT	NCTC	NORMALLY CLOSED, TIMED			
ED CABLE	NCTO	NORMALLY CLOSED, TIMED			
AND ILITY	NOTC	TO OPEN NORMALLY OPEN, TIMED	CONSULTANTS		
OOR	NOTO	TO CLOSED			
GRADE	NOTO	TO OPEN			
SEER SWITCH	NTS OL'S	NOT TO SCALE			
GAUGE	OL 3 OT	OVER TEMPERATURE			
	PB PNL	PULL BOX PANEL			
)R,	PP	POWER PANEL			
DNTRACTOR	PT PWR	POTENTIAL TRANSFORMER POWER			
	R1 RECEP	RELAY #1 RECERTACIE	SEALS		
TRANSFORMER	RVNR	REDUCED VOLTAGE	AT JAMES 10 PT		
FORMER NEL	(S) (SH)	NON-REVERSING SHIELDED CABLE	LICE AND		
	SE	SERVICE ENTRANCE	Critic (94341) (C)		
IND CONDUCTOR	SP SS	SPARE SELECTOR SWITCH	9/6/2024		
F	SWBD	SWITCHBOARD	ORANGE COUNTY, NEW		
F	TEMP	TEMPERATURE			
ON-REVERSING	TEW UON	THERMOCOUPLE EXTENSION WIRE			
	V	VOLT			
MATIC	VFD WP	VARIABLE FREQUENCY DRIVE WEATHERPROOF			
IG CONTROL	WT	WINDING TEMPERATURE RELAY	WASTEWATER		
	NEC	NATIONAL ELECTRIC CODE	(WWTP) ADMIN		
	(TYP) ø	TYPICAL	BUILDING		
	#	NUMBER	RENOVATION		
CENTER					
CIRCULAR MILS R-BASED			BID NUMBER 7.24 ARCADIS PROJ. NO. 30183827		
ER SWITCH					
AY AND	FUNCTI	N DESIGNATIONS			
SYNCHRONIZER		- DENOTES NEUTRAL			
CHECK WITH DEAL	) BUS \ 59	<ul> <li>GENERATOR</li> <li>OVER VOLTAGE</li> <li>OVER VOLTAGE</li> </ul>			
VOLTAGE WITH T	IME 63PF	- PRESSURE GAUGE - PRESSURE RELIEF - AC DIRECTIONAL OVER	NO. DATE ISSUED FOR BY		
NICATOR RELAY	81	– AC DIRECTIONAL OVER CURRENT – FREQUENCY			
R	L. L	u – UNDER D – OVER	COPYRIGHT: ARCADIS OF NEW YORK, 2014 INC.		
ON SWITCH OF EXCITATION	83 86	<ul> <li>AUTOMATIC TRANSFER</li> <li>LOCKOUT HAND RESET</li> </ul>			
AL SWITCH E-BALANCE CURRE	87 ENT 1	– PHASE DIFFERENTIAL – DENOTES TRANSFORMER	DATE: <u>SEPTEMBER 2024</u>		
L-SEQUENCE VOLT AL	AGE E (	G – DENOTES BUS G – DENOTES GENERATOR	FILE NAME: E-01		
TES MOTOR			DESIGNED BY: S. CURTIS		
NTANEOUS CURRENT AND TIME	E		DRAWN BY: <u>A. IYER</u>		
OVERCURRENT			CHECKED BY: <u>G. MOORE</u>		
<b>C</b>			SHEET TITLE		
<u> </u>			ELECTRICAL		
VIATIONS LIST ON ERAL USE ON ALL	THIS SHEET PROJECTS.	TS A COMPREHENSIVE STANDARD THEREFORE NOT ALL THE			
) SHOULD BE USE	D FOR CLARI	FICATION ONLY.	SYMBOLS, LEGENDS		
PMENT SHALL CON	IFORM TO TH	E AREA CLASSIFICATION AREA DESIGNATIONS FOR WET	AND ABBREVIATIONS		
D LOCATIONS ARE	INDICATED	ON THE DRAWINGS.			
CT SITE SHALL BE	IN ACCORDA	NCE WITH JOB CONDITIONS			
R ANY DEVICE WITH PIG TAIL SUCH AS SOLENOID VALVES, TECTORS AND ETC. FOR PROPER ELECTRICAL CONNECTION. OR MOUNTING OF JUNCTION BOX.					
PORT FOR DISCONNECT SWITCHES, CONTROL STATIONS, BOXES, VALLS OR OTHER STRUCTURAL SURFACE EXISTS.					
CATIONS ARE APP	ROXIMATE. A	NONE			
FURNISHED. E-01					
AND ODTAIN ALL I	LINNIIS REQ	UNED FOR WORK, SEE NOTE #/	SHEET <u>44</u> OF <u>51</u>		
			ļ		

![](_page_44_Figure_0.jpeg)

![](_page_45_Figure_0.jpeg)

![](_page_45_Picture_1.jpeg)

4

### NOTES:

- 1. ALL ROOMS ARE DUSTY LOCATION. CONFORM TO THE REQUIREMENTS OF
- 2. FOR CLARITY, CONDUIT ROUTING IS NO REFER TO ONE LINE AND BLOCK DIAG PROVIDE PULL BOXES AS REQUIRED F CONDUIT INSTALLATION
- RELOCATE SCADA PANEL AND ASSOC 3. CONDUITS AND CABLES AS REQUIRED EXISTING SIGNALS TO EXISTING CONT SIGNALS AND EQUIPMENT RELOCATIO

![](_page_45_Picture_6.jpeg)

## EXISTING SCADA ASSOCIATED PER EQUIPMENT LOCAT

6	ARCADIS
	LEGAL ENTITY: ARCADIS OF NEW YORK, INC.
. EQUIPMENT, MATERIALS, INCIDENTALS ETC SHALL HE LOCATIONS DESIGNATION. SHOWN. ONLY MAIN HOMERUNS ARE SHOWN. M FOR CONDUIT AND WIRE REQUIREMENTS.	
ED PERIPHERAL EQUIPMENT AND EXTEND/REROUTE	SEALS
CONTRACTOR SHALL FIELD TRACE ORIGIN OF DL PANEL PRIOR TO RELOCATION). COORDINATE WITH OWNER.	POFESSIONAL 9/6/2024
	CITY OF NEWBURGH
EXISTING ASSOCIATED PERIPHERAL EQUIPMENT (TYP.)	WASTEWATER TREATMENT PLANT (WWTP) ADMIN BUILDING RENOVATION
	BID NUMBER 7.24 ARCADIS PROJ. NO. 30183827
	NO. DATE ISSUED FOR BY
PANEL &	COPYRIGHT: ARCADIS OF NEW YORK, 2014 INC.
PHERAL	DATE: SEPTEMBER 2024
ON DETAIL	FILE NAME:
	DESIGNED BY: S. CURTIS
	DRAWN BY: <u>A. IYER</u> CHECKED BY: G. MOORF
	FIRST FLOOR POWER PLAN
	SCALE:
	As indicated
	E-10
	-

![](_page_46_Figure_0.jpeg)

![](_page_47_Figure_0.jpeg)

![](_page_47_Picture_1.jpeg)

### NOTES:

AR	RCADIS		
LEGAL ENTITY ARCADIS OF NE	: EW YORK, INC.		
CONSULTANTS	8		
SEALS			
LICENSE	PROFESSIONAL 9/6/2024		
ORA	ANGE COUNTY, NEW YORK		
CITY	OF NEWBURGH		
	BUILDING		
	NOVATION		
BID NUMBER 7 ARCADIS PRO.	.24 J. NO. 30183827		
NO. DATE	ISSUED FOR BY		
COPYRIGHT: A 2014 IN	RCADIS OF NEW YORK, IC.		
DATE: PROJECT NO.:	SEPTEMBER 2024 30183827		
FILE NAME: DESIGNED BY:	S. CURTIS		
DRAWN BY:	A. IYER		
CHECKED BY:	G. MOORE		
	ELECTRICAL		
ROOF POWER PLAN			
SCALE:	1/4" = 1'-0"		
SHEET	E-12 48 OF 51		

1. THE ROOF AREA IS A WET LOCATION. ALL EQUIPMENT, MATERIALS, INCIDENTALS ETC SHALL CONFORM TO THE REQUIREMENTS OF THE LOCATIONS DESIGNATION.

6

FOR CLARITY, CONDUIT ROUTING IS NOT SHOWN. ONLY MAIN HOMERUNS ARE SHOWN. REFER TO ONE LINE AND BLOCK DIAGRAM FOR CONDUIT AND WIRE REQUIREMENTS. PROVIDE PULL BOXES AS REQUIRED PER NEC. CONTRACTOR SHALL FIELD COORDINATE CONDUIT INSTALLATION

	CKT NO.	TRIP	DESCRIPTION OF LOAD		LOAD	KVA PER PHASE			LOAD		TRIP	СКТ
		AMPS			KVA	A	В	С	KVA	DESCRIPTION OF LOAD	AMPS	NO.
	1				8.00	12.0			4.00			2
	3 40		EWH-1		8.00		12.0		4.00	RTU-1	20	4
	5				8.00			12.0	4.00			6
	7				5.00	5.0			0.00			8
	9	30	RTU-2		5.00		5.0		0.00	SPARE	20	10
	11				5.00			5.0	0.00			12
	13				0.00	10.0			10.00			14
	15	60	CHEMICAL STORAGE XFM	R	0.00		10.0		10.00	LPE4 VIA XFMR T-1	50	16
	17				0.00			10.0	10.00			18
	19				0.00	0.0			0.00			20
	21	30	CHEMICAL STORAGE GATE VALVE		0.00		0.0		0.00	SPARE	20	22
	23				0.00			0.0	0.00			24
	25				0.00	0.0			0.00			26
	27	30	CHEMICAL STORAGE MISC. FEED		0.00		0.0		0.00	SPARE		28
	29				0.00			0.0	0.00			30
	LIGHTI	NG PAN	IEL: PPE-4	TOTAL KVA		27.0	27.0	27.0		SERVICE CHARACTERISTICS: 480/277 VOLT – 3 PHASE – 3 WIRE – 60 HZ		
	LOCAT	10N: M	ECH RM 105B	GRAND CONNECTED TOTAL KVA			81.0		PROVIDE 200AF/200AT MAIN BREAKER & SOLID NEUTRAL 65KA SO RATING & GROUND BUS			

![](_page_48_Figure_1.jpeg)

				KVA	KVA PER PHASE						
CKT NO.	TRIP AMPS	DESCRIPTION OF LOAD		A	В	с	KVA	DESCRIPTION OF LOAD		NO.	
1	20	CONF. RM 107 - RECEPTACLE	0.72	1.4			0.72	CONF. RM 107 - RECEPTACLE	20	2	
3	20	LOCKER RM 105 & BATHROOM 105A – RECEPTACLE	0.36		0.7		0.36	LOCKER RM 105 & UNISEX TOILET ROOM 103 - RECEPTACLE	20	4	
5	20	OFFICE A 104, OFFICE B 106 & HALL 101B - RECEPTACLE	0.90			1.9	1.00	SCADA PANEL	20	6	
7	20	OFFICE A 104, OFFICE B 106 & HALL 101B - RECEPTACLE	1.08	1.6			0.54	LOBBY 101 & WORK AREA 101A - RECEPTACLE	20	8	
9	20	LOBBY 101 & WORK AREA 101A - RECEPTACLE	0.36		0.9		0.54	LAB 102 – RECEPTACLE	20	10	
11	20	LAB 102 – RECEPTACLE	0.54			0.7	0.18	LAB 102 REFRIGERATOR – RECEPTACLE	20	12	
13	20	LAB 102 – LIGHTING	0.06	0.1			0.06	LAB 102 – LIGHTING	20	14	
15	20	LOBBY 101 & WORK AREA 101A - LIGHTING	0.04		0.1		0.06	LOBBY 101 & WORK AREA 101A - LIGHTING	20	16	
17	20	OFFICE A 104, OFFICE B 106 & HALL 101B- LIGHTING	0.16			0.3	0.16	OFFICE A 104, OFFICE B 106 & HALL 101B- LIGHTING	20	18	
19	20	CONF. RM 107 & SCADA RM 107A - LIGHTING	0.12	0.2			0.10	CONF. RM 107 & SCADA RM 107A — LIGHTING	20	20	
21	20	LOCKER RM 105, BATHROOM 105A & UNISEX TOILET ROOM 103 - LIGHTING	0.08		0.1		0.04	LOCKER RM 105, BATHROOM 105A & UNISEX TOILET ROOM 103 - LIGHTING	20	22	
23	20	MECH RM 105B — LIGHTING	0.04			0.1	0.03	JAN CL 105C & MECH RM 105B - LIGHTING	20	24	
25	20	LAB 102 – RECEPTACLE	0.54	1.1			0.54	LAB 102 – RECEPTACLE	20	26	
27	20	LAB 102 – RECEPTACLE	0.72		1.2		0.50	DIRECT DIGITAL CONTROL PANEL TCP-1	20	28	
29	15	EXHAUST FAN – EF–1	0.10			0.2	0.10	EXHAUST FAN – EF–2	15	30	
31			0.17	0.3			0.18	RTU-1 RECEPTACLE	20	32	
33	20	EXHAUST FAN – EF–3	0.17		0.4		0.18	RTU-2 RECEPTACLE	20	34	
35			0.17			0.7	0.50	LACS CP	20	36	
37	70		2.28	3.0			0.75		70	38	
39	30	$AC-1 \propto AC-2 VIA ACCU-1$	2.28		3.0		0.75	COH-1	30	40	
41	20	SPARE	0.00			0.0	0.00	SPARE	20	42	
43	20	SPARE	0.00	0.0			0.00	SPARE	20	44	
45	20	SPARE	0.00		0.0		0.00	SPARE	20	46	
47	20	SPARE	0.00			0.0	0.00	SPARE	20	48	
49	20	SPARE	0.00	0.0			0.00	SPARE	20	50	
51	20	SPARE	0.00		0.0		0.00	SPARE	20	52	
53	20	SPARE	0.00			0.0	0.00	SPARE	20	54	
55	20	SPARE	0.00	0.0			0.00	SPARE	20	56	
57	20	SPARE	0.00		0.0		0.00	SPARE	20	58	
59	20	SPARE	0.00			0.0	0.00	SPARE	20	60	
LIGHTING PANEL: LPE-4				7.9	6.4	3.9		SERVICE CHARACTERISTICS: 208/120 VOLT – 3 PHASE – 4 WIRF – 60 H7			
LOCATION: MECH RM 105B				18.2			PRO	PROVIDE 100AF/100AT MAIN BREAKER & SOLID NEUTRAL 22KA SC RATING & GROUND BUS			

<u>LPE-4</u> <u>PANELBOARD\_SCHEDULE</u>

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LICENSED POPESSIONAL POPESSIONAL 9/6/2024						
ORANGE COUNTY, NEW YORK						
CITY OF NEWBURGH						
WASTEWATER TREATMENT PLANT (WWTP) ADMIN BUILDING RENOVATION						
BID NUMBER 7.24 ARCADIS PROJ. NO. 30183827						
NO. DATE ISSUED FOR BY						
COPYRIGHT: ARCADIS OF NEW YORK, 2014 INC.						
DATE: <u>SEPTEMBER 2024</u>						
FILE NAME: <u>E-50</u>						
DESIGNED BY: <u>S. CURTIS</u>						
DRAWN BY: <u>A. IYER</u> CHECKED BY: G. MOORE						
SHEET TITLE						
ELECTRICAL						
PANEL SCHEDULE						
SCALE:						
E-3U SHEET 49 OF 51						

![](_page_49_Figure_0.jpeg)

![](_page_50_Figure_0.jpeg)

# GROUNDING CONNECTIONS

	<b>i</b>				i		
TAG	NOMINAL WATTS	NOMINAL LUMEN	COLOR TEMP.	DISTRIBUTION	VOLTAGE	DESCRIPTION	MANUFACTURER
A	13	400	4000K	N/A	120-277	4-FEET LINEAR LED LIGHT FIXTURE, ONE-PIECE EXTRUDED ALUMINUM HOUSING W/ CO-EXTRUDED LENS AND FILMS, SUITABLE FOR WET LOCATIONS, UL 1598 & UL8750 LISTED.	MARK ARCHITECTURAL SLOT 4 PENDANT OR APPROVED EQUAL
В	20	600	4000K	N/A	120-277	4-FEET LINEAR LED LIGHT FIXTURE, ONE-PIECE EXTRUDED ALUMINUM HOUSING W/ CO-EXTRUDED LENS AND FILMS, SUITABLE FOR WET LOCATIONS, UL 1598 & UL8750 LISTED.	MARK ARCHITECTURAL SLOT 4 PENDANT OR APPROVED EQUAL
С	27	3000	4000K	N/A	120-277	2-FEET LINEAR LED LIGHT FIXTURE WITH ACRYLIC DIFFUSER AND BRUSHED NICKEL HOUSING SUITABLE FOR WET LOCATIONS.	LITHONIA FMVCSLS VANITY LED OR APPROVED EQUAL
D	32	1800	2700K	N/A	120-277	ROUND SHAPED FIXTURE WITH MATTE WHITE ACRYLIC DIFFUSER AND A ROBUST ALUMINUM HOUSING EQUIPPED WITH PROTECTIVE GASKETING. SUITABLE FOR WET LOCATIONS.	LITHONIA LIGHTING VERSI LITE FMML OR APPROVED EQUAL
EM1	6.6	640	N/A	SPOT	120-277	EMERGENCY LIGHT FIXTURE WITH DUAL LAMPS, SUITABLE FOR WET LOCATION, IMPACT-RESISTANT, SCRATCH RESISTANT, CORROSION PROOF AND UNIVERSAL MOUNTING, PROVIDE LITHIUM IRON PHOSPHATE BATTERY OR CADMIUM BATTERY BACKUP FOR 90 MIN. OPERATION AND SELF DIAGNOSTIC TESTING. PROVIDE REMOTE HEAD LIGHT FIXTURE AS INDICATED ON DRAWINGS.	LITHONIA LIGHTING ELM4L OR APPROVED EQUAL
X1	3.1	N/A	N/A	N/A	120-277	LED EXIT SIGN, FULLY ASSEMBLED SINGLE FACE WITH RED LETTER AND WHITE FINISH, SUITABLE FOR DAMP LOCATIONS. IMPACT-RESISTANT, SCRATCH RESISTAND AND CORROSION PROOF THERMOPLASTIC HOUSING WITH NICKEL-CADMIUM BATTERY PROVIDING 90 MINS BACKUP.	LITHONIA LIGHTING LQM OR APPROVED EQUAL

5

# LIGHTING FIXTURE SCHEDULE

![](_page_50_Figure_6.jpeg)

![](_page_50_Figure_7.jpeg)

# EXTERIOR GROUND CONNECTION AND TEST WELL DETAIL

![](_page_50_Figure_9.jpeg)

4

- FLOOR SEAL OR SEALING BUSHING AS

6

TOP OF FINISHED CONCRETE FLOOR SLAB-INTERIOR NEW OR EXISTING CONSTRUCTION

![](_page_50_Picture_18.jpeg)

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BID NUMBER 7.24 ARCADIS PROJ. NO. 30183827
NO. DATE ISSUED FOR BY
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DATE: SEPTEMBER 2024
PROJECT NO.:         30183827           FILE NAME:         E-52
DESIGNED BY: <u>S. CURTIS</u>
DRAWN BY: <u>A. IYER</u> CHECKED BY: G. MOORE
SHEET TITLE
ELECTRICAL
MISCELLANEOUS DETAILS
SCALE: NONE
E-52
SHEET 51 OF 51