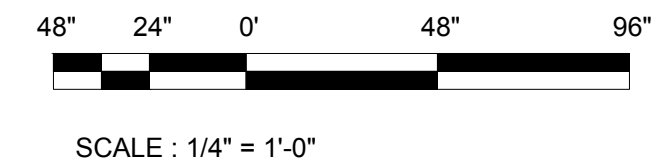


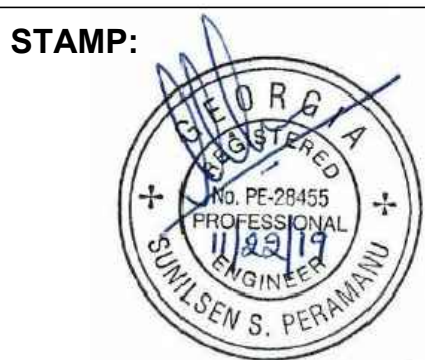
1 ELECTRICAL BUILDING - HVAC PLAN
 M1-101 SCALE: 1/4" = 1'-0"

- KEY NOTES:**
- 1 REFER TO DETAIL #2 ON SHEET M5-001 FOR ACU MOUNTING.
 - 2 ROUTE CONDENSATE DRAIN WITH 3/4" COPPER PIPE. SLOPE PIPE IN THE DIRECTION OF FLOW. TERMINATE PIPE WITH A CONCRETE SPLASH BLOCK. SEE DETAIL #5 ON SHEET M5-001.
 - 3 LEAD/LAG CONTROLLER W/BUILT-IN TEMPERATURE SENSOR.
 - 4 PROVIDE 24 VDC OR 48 VDC POWER BACKUP TO THE CONTROLLER.

IF YOU DIG GEORGIA...
 CALL US FIRST!
 UTILITIES PROTECTION CENTER
 1-800-282-7411
 (404) 325-5000
 (metro Atlanta only)
 IT'S THE LAW



No.	Description	Date

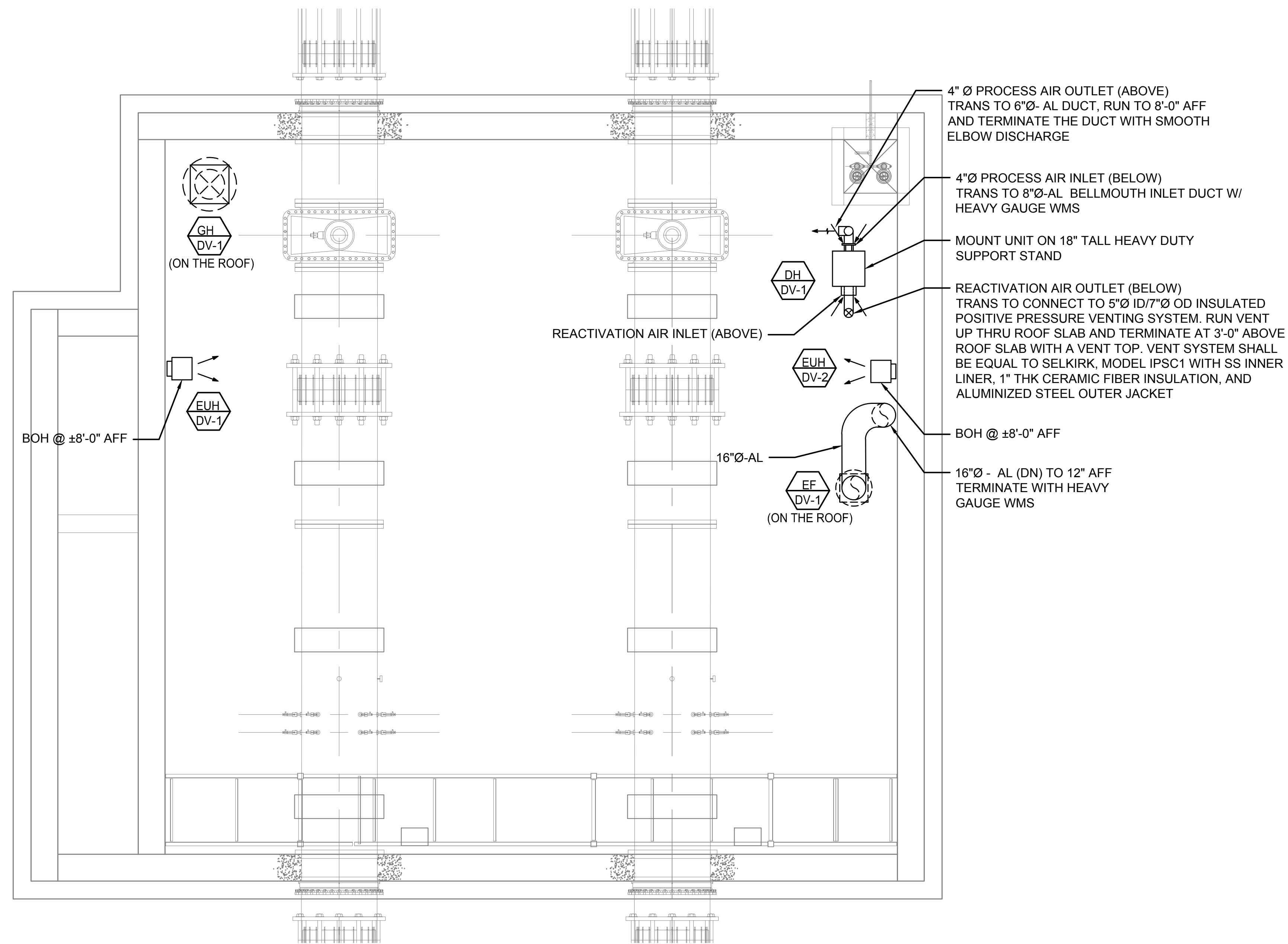


ADDRESS:

PROJECT NO:	TASK 1
DESIGNED BY:	SP
DRAWN BY:	NM
CHECKED BY:	SP
DATE:	11-22-2019
SCALE:	AS NOTED

CITY OF ATLANTA DEPT. OF WATERSHED MANAGEMENT WATER SUPPLY PROGRAM		DRAWING NO.
RIVER INTAKE PUMP STATION ELECTRICAL ROOM HVAC PLAN		RI-PS
		M1-101
		SHEET OF

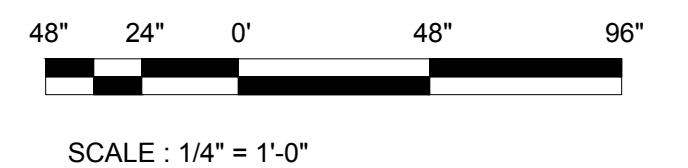
ISSUED FOR BIDDING



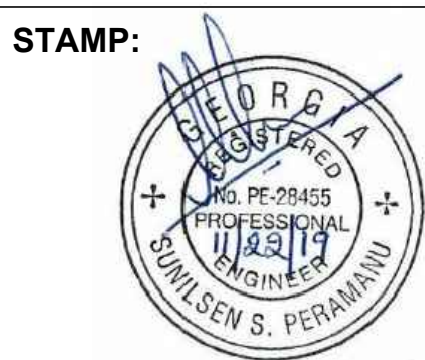
- GENERAL NOTES:**
1. PROVIDE ACCESS AROUND THE DEHUMIDIFIER UNIT AS RECOMMENDED BY THE MANUFACTURER.
 2. COORDINATE THE ROOF SLAB OPENING SIZES WITH STRUCTURAL FOR APPROVED EXHAUST FAN AND GRAVITY INTAKE AIR HOOD. PROVIDE 12" TALL CONCRETE CURB FOR THESE OPENINGS TO MOUNT EQUIPMENT.

1 METER VAULT - HVAC PLAN
 M1-102 SCALE: 1/4" = 1'-0"

IF YOU DIG GEORGIA...
 CALL US FIRST!
 UTILITIES PROTECTION CENTER
 1-800-282-7411
 (404) 325-5000
 (metro Atlanta only)
 IT'S THE LAW



No.	Description	Date



ADDRESS:
 2950 Horizon Park Drive
 Suite B
 Marietta, GA 30064
 Phone: 770-485-3700
 Fax: 770-423-9206

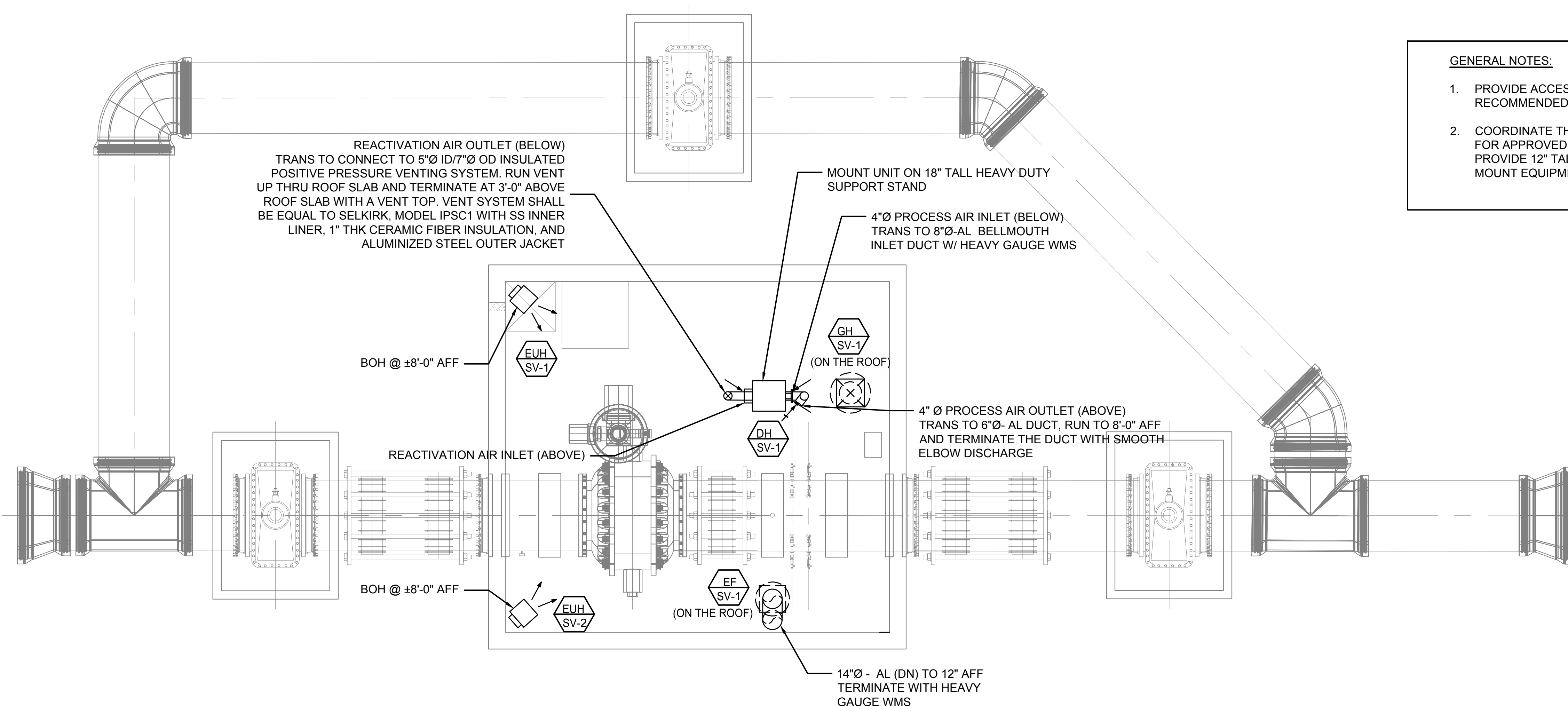
PROJECT NO:	TASK 1
DESIGNED BY:	SP
DRAWN BY:	NM
CHECKED BY:	SP
DATE:	11-22-2019
SCALE:	AS NOTED

CITY OF ATLANTA DEPT. OF WATERSHED MANAGEMENT
WATER SUPPLY PROGRAM
RIVER INTAKE PUMP STATION
 METER VAULT
 HVAC PLAN

DRAWING NO.
 RI-PS
 M1-102
 SHEET OF

ISSUED FOR BIDDING

C:\Users\Nastasia\Dropbox\Pro\3000-WM\3005 - R2T\3005-013-River Intake PS\400-Eng\407 - Dwg\HVAC\M1-101.dwg, 12/2/2019 5:35:23 PM, DWG To PDF.pc3

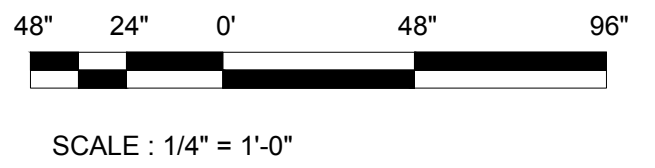


- GENERAL NOTES:**
1. PROVIDE ACCESS AROUND THE DEHUMIDIFIER UNIT AS RECOMMENDED BY THE MANUFACTURER.
 2. COORDINATE THE ROOF SLAB OPENING SIZES WITH STRUCTURAL FOR APPROVED EXHAUST FAN AND GRAVITY INTAKE AIR HOODS. PROVIDE 12" TALL CONCRETE CURB FOR THESE OPENINGS TO MOUNT EQUIPMENT.

1 VALVE VAULT - HVAC PLAN
M1-103 SCALE: 1/4" = 1'-0"



**IF YOU DIG GEORGIA...
CALL US FIRST!**
UTILITIES PROTECTION CENTER
1-800-282-7411
(404) 325-5000
(metro Atlanta only)
IT'S THE LAW



No.	Description	Date



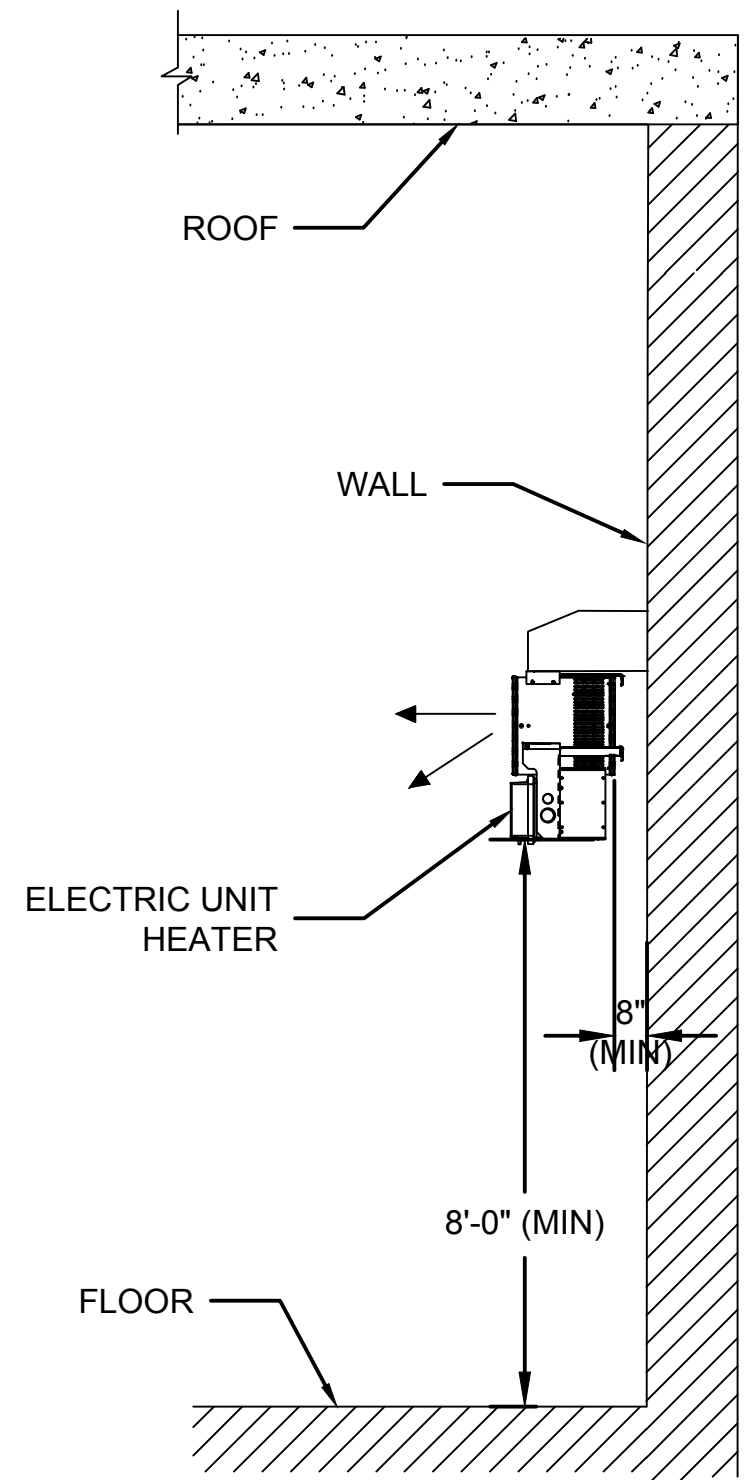
ADDRESS:
ENGINEERED SYSTEMS & SERVICES
2950 Horizon Park Drive
Suite B
Smyrna, GA 30024
Phone: 770-485-3700
Fax: 770-423-9206

PROJECT NO:	TASK 1
DESIGNED BY:	SP
DRAWN BY:	NM
CHECKED BY:	SP
DATE:	11-22-2019
SCALE:	AS NOTED

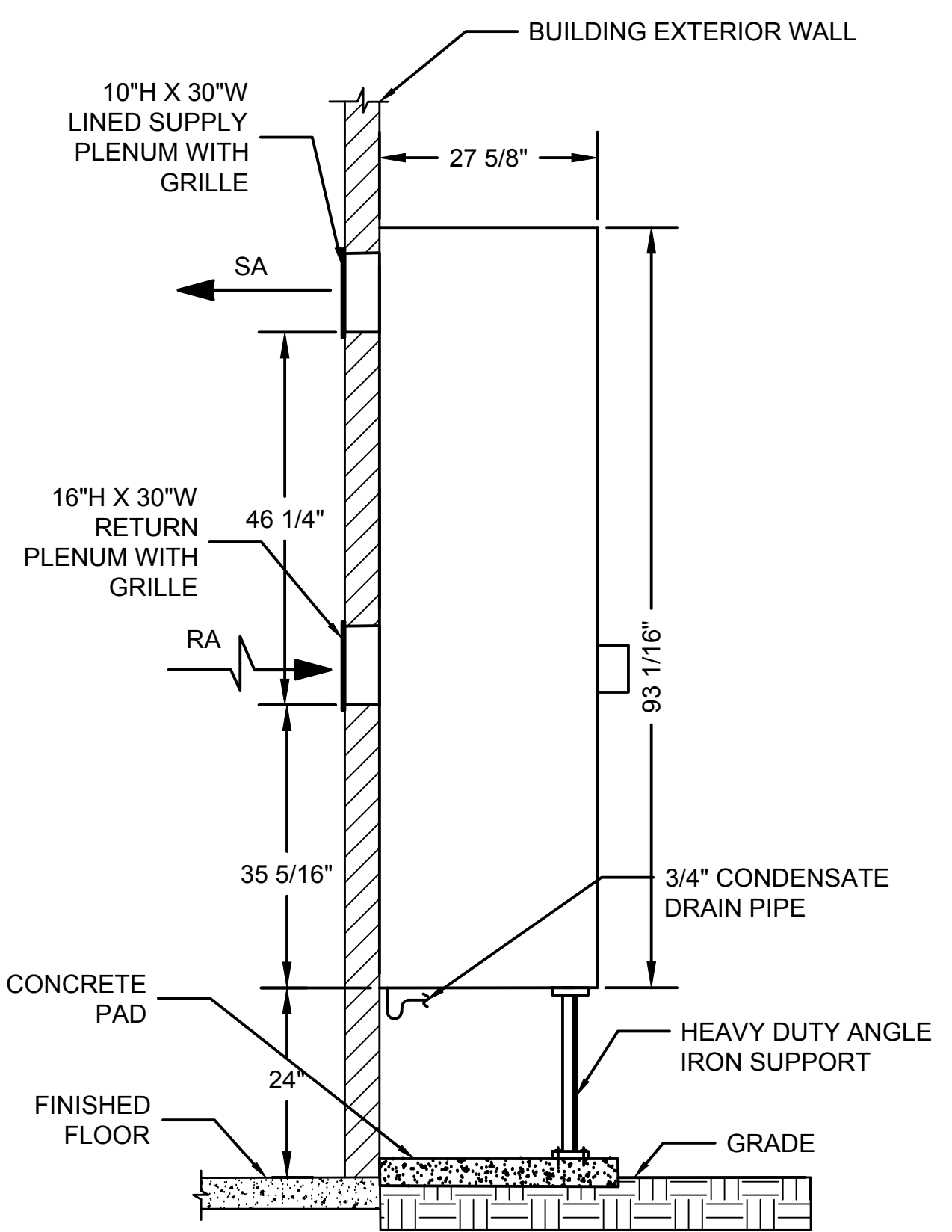
**CITY OF ATLANTA DEPT. OF WATERSHED MANAGEMENT
WATER SUPPLY PROGRAM**
RIVER INTAKE PUMP STATION
VALVE VAULT
HVAC PLAN

DRAWING NO.
RI-PS
M1-103
SHEET OF

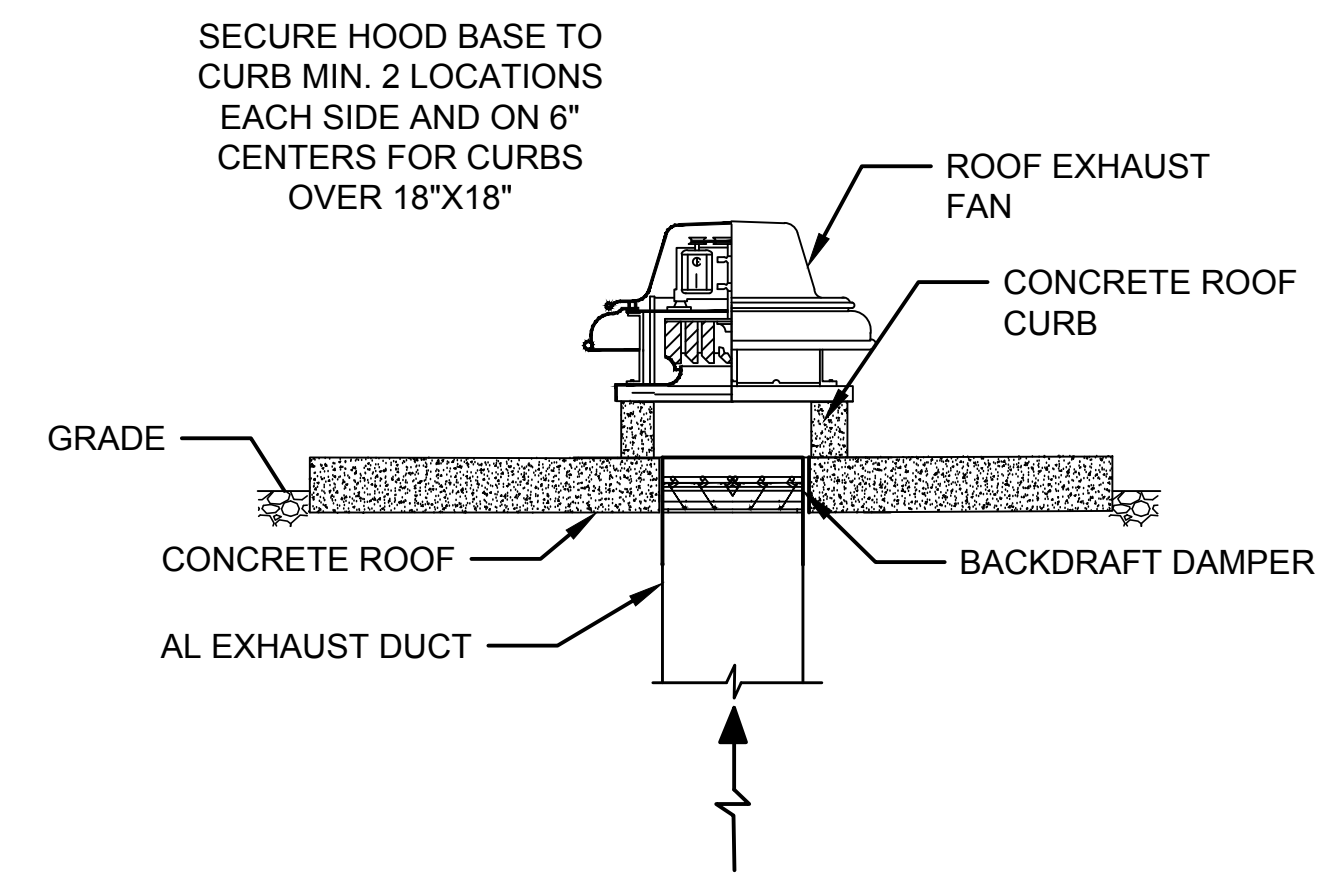
ISSUED FOR BIDDING



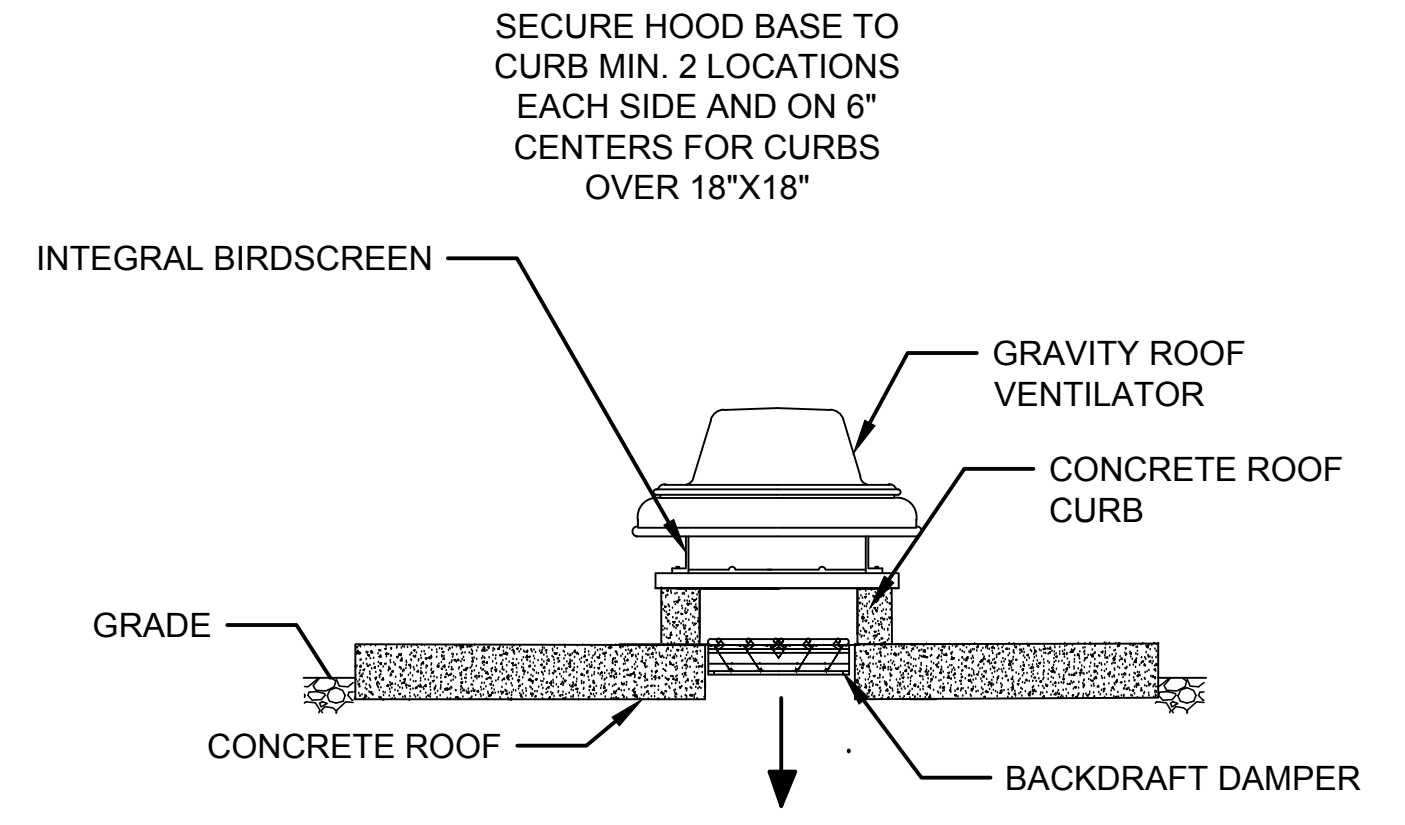
1 WALL MOUNTED ELECTRIC HEATER DETAIL
NTS



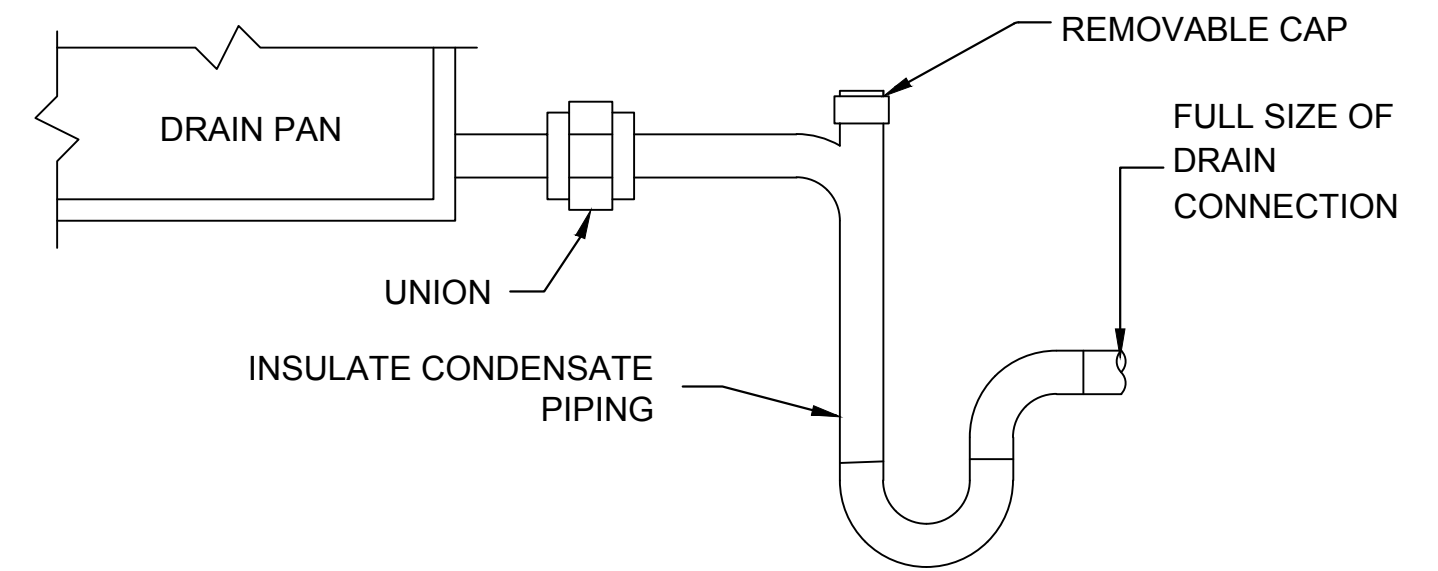
2 ACU MOUNTING DETAIL
NTS



3 ROOF FAN MOUNTING DETAIL
NTS



4 GRAVITY INTAKE AIR HOOD MOUNTING DETAIL
NTS



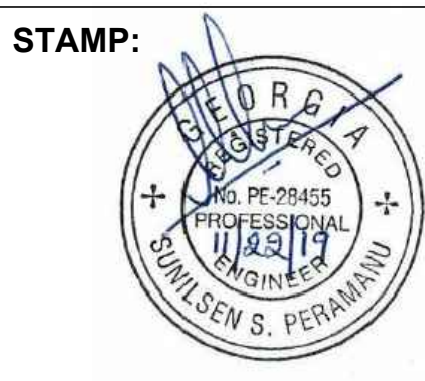
1. PIPING SHALL BE FULL SIZE OF DRAIN CONNECTION.
2. WHERE SUPPORTED, ISOLATE DRAIN PIPING FROM CLAMPS WITH DIELECTRIC ISOLATORS.
3. MINIMUM TRAP HEIGHT SHALL BE EQUAL TO FAN NEGATIVE STATIC PRESSURE.

5 CONDENSATE DRAIN DETAIL
NTS

**IF YOU DIG GEORGIA...
CALL US FIRST!
UTILITIES PROTECTION CENTER
1-800-282-7411
(404) 325-5000
(metro Atlanta only)
IT'S THE LAW**



No.	Description	Date



ADDRESS:
ENGINEERED SYSTEMS & SERVICES
2950 Horizon Park Drive
Suite B
Smyrna, GA 30024
Phone: 770-410-3700
Fax: 770-423-9200

PROJECT NO:	TASK 1
DESIGNED BY:	SP
DRAWN BY:	NM
CHECKED BY:	SP
DATE:	11-22-2019
SCALE:	AS NOTED

CITY OF ATLANTA DEPT. OF WATERSHED MANAGEMENT
WATER SUPPLY PROGRAM
RIVER INTAKE PUMP STATION
HVAC DETAILS

DRAWING NO.
RI-PS
M5-001
SHEET OF

GENERAL NOTES

- THESE CONTRACT DRAWINGS ARE SCHEMATIC IN NATURE AND ARE NOT INTENDED TO SHOW ALL POSSIBLE CONDITIONS. IT IS INTENDED THAT A COMPLETE HVAC SYSTEM BE PROVIDED WITH ALL NECESSARY EQUIPMENT, APPURTENANCES, AND CONTROLS, COMPLETELY COORDINATED WITH ALL DISCIPLINES. ALL PARAMETERS GIVEN IN THESE DOCUMENTS SHALL BE STRICTLY CONFORMED WITH ALL ITEMS AND LABOR REQUIRED FOR A COMPLETE HVAC SYSTEM IN ACCORDANCE WITH ALL APPLICABLE STANDARDS AND LATEST STATE AND LOCAL CODES AND THIS PACKAGE OF CONTRACT DOCUMENTS SHALL BE FURNISHED WITHOUT INCURRING ANY ADDITIONAL COST TO THE CONTRACTOR. CONTRACTOR SHALL CAREFULLY REVIEW ALL CONTRACT DOCUMENTS AND THE DESIGN OF OTHER TRADES BEFORE PREPARING SHOP DRAWINGS, AND COMMENCING ANY WORK.
- COORDINATE DUCTWORK AND PIPING WITH ARCHITECTURAL, PROCESS MECHANICAL, STRUCTURAL, PLUMBING, FIRE PROTECTION AND ELECTRICAL. MAKE OFFSETS AND TRANSITIONS TO COORDINATE WITH OTHER TRADES WITHOUT ADDITIONAL EXPENSE TO THE OWNER.
- MECHANICAL CONTRACTOR SHALL COORDINATE VOLTAGE AND PHASE OF EACH PIECE OF EQUIPMENT WITH THE ELECTRICAL CONTRACTOR AND ALL ELECTRICAL CONTRACT DOCUMENTS PRIOR TO ORDERING.
- ALL WALL MOUNTED THERMOSTATS SHALL BE INSTALLED 4'-0" ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE.
- ALL WORK SHALL BE PERFORMED IN A CLEAN AND WORKMANLIKE MANNER. CARE SHALL BE EXERCISED TO MINIMIZE ANY INCONVENIENCE OR DISTURBANCE TO OTHER AREAS OF THE BUILDING WHICH ARE TO REMAIN IN OPERATION. ISOLATE WORK AREAS BY MEANS OF TEMPORARY PARTITIONS AND/OR TARPS TO KEEP DUST AND DIRT WITHIN THE CONSTRUCTION AREA.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFEKEEPING OF HIS OWN PROPERTY ON THE JOB SITE. OWNER ASSUMES NO RESPONSIBILITY FOR PROTECTION OF PROPERTIES AGAINST FIRE, THEFT AND ENVIRONMENTAL CONDITIONS.

WALL MOUNTED AIR CONDITIONING UNITS WITH ELECTRIC HEAT

EQUIPMENT TAG	MAX SUPPLY AIR (CFM)	OA (CFM)	NOMINAL TONS	ESP (IN. WG)	INDOOR FAN MOTOR (HP)	COOLING		ELECTRIC HEATING KW	OUTDOOR FAN MOTOR (HP)	ELECTRICAL			EER	MAKE & MODEL		WEIGHT OF UNIT (LBS)	REMARKS
						TOTAL (MBH)	SENSIBLE (MBH)			VOLT/PH/HZ	MCA (AMPS)	MOP (AMPS)		MFR	MODEL		
ACU-1	1,925	100	6.0	0.2	3/4	70.0	48.3	9	1/2	460/3/60	19.4	30	10	MARVAIR	MGA1072A	800	1 THRU 14
ACU-2	1,925	100	6.0	0.2	3/4	70.0	48.3	9	1/2	460/3/60	19.4	30	10	MARVAIR	MGA1072A	800	1 THRU 14

GENERAL NOTES:

- COOLING CAPACITY BASED ON EAT OF 80F DB/67F WB, AND 95F OA TEMPERATURE

REMARKS:

- SINGLE POINT POWER CONNECTION
- ECONOMIZER WITH ENTHALPY CONTROLS
- LOW AMBIENT CONTROLS
- SCROLL COMPRESSOR WITH COMPRESSOR SOUND JACKET
- ECM INDOOR FAN MOTOR
- HIGH EFFICIENCY UNIT WITH HEAVY DUTY CONSTRUCTION
- HUMIDITY CONTROL WITH HOT GAS RE-HEAT
- MERV 11 FILTERS. DIRTY FILTER INDICATOR
- SUPPLY AND RETURN GRILLES. TOP SUPPLY AND BOTTOM RETURN AIRFLOW
- PROTECTIVE COATING ON CONDENSER COIL
- DRY CONTACTS FOR REMOTE ALARMING
- DISCONNECT SWITCH
- COMMSTAT3 LEAD/LAG MICROPROCESSOR CONTROLLER WITH CAPABILITY TO RUN BOTH UNITS UPON DEMAND
- COLOR TO BE SELECTED BY THE ARCHITECT DURING SHOP DRAWING REVIEW

GRAVITY INTAKE AIR HOOD SCHEDULE


EQUIPMENT TAG	LOCATION	SERVICE	AIR FLOW (CFM)	PRESSURE DROP (IN. WG)	MAKE & MODEL		REMARKS
					MFR	MODEL	
GH-SV-1	VALVE VAULT	INTAKE	800	0.05	GREENHECK	GRSI - 16	1, 2
GH-DV-1	METER VAULT	INTAKE	1,100	0.05	GREENHECK	GRSI - 20	1, 2

GENERAL NOTES:

- OR EQUAL BY LOREK COOK

ACCESSORIES:

- GRAVITY BACK DRAFT DAMPER
- BIRD SCREEN

 IF YOU DIG GEORGIA... CALL US FIRST! UTILITIES PROTECTION CENTER 1-800-282-7411 (404) 325-5000 (metro Atlanta only) IT'S THE LAW

ELECTRIC UNIT HEATER SCHEDULE

EQUIPMENT TAG	LOCATION	KW	CFM	FAN HP	VOLT/PH/HZ	MAKE & MODEL		REMARKS
						MFR	MODEL	
EUH-SV-1	VALVE VAULT	5	405	1/15	480/3/60	CHROMALOX	HD3D-500	1, 2, 3
EUH-SV-2	VALVE VAULT	5	405	1/15	480/3/60	CHROMALOX	HD3D-500	1, 2, 3
EUH-DV-1	METER VAULT	7.5	590	1/15	480/3/60	CHROMALOX	HD3D-750	1, 2, 3
EUH-DV-2	METER VAULT	7.5	590	1/15	480/3/60	CHROMALOX	HD3D-750	1, 2, 3

GENERAL NOTES:

- OR EQUAL BY QMARK

ACCESSORIES:

- HOSE-DOWN CORROSION RESISTANT BLOWER HEATER
- INTEGRAL THERMOSTAT
- MOUNTING BRACKETS

ABBREVIATIONS

ACU	AIR CONDITIONING UNIT	EER	ENERGY EFFICIENCY RATIO	MIN	MINIMUM
AD	ACCESS DOOR	EF	EXHAUST FAN	MOP	MAXIMUM OVERCURRENT PROTECTION
AFF	ABOVE FINISHED FLOOR	ESP	EXTERNAL STATIC PRESSURE	MTD	MOUNTED
AFG	ABOVE FINISHED GRADE	EUH	ELECTRICAL UNIT HEATER	OA	OUTSIDE AIR
AHU	AIR HANDLING UNIT	FLR	FLOOR	OAI	OUTSIDE AIR INTAKE
AL	ACOUSTICAL LINING	FOB	FLAT ON BOTTOM	OAT	OUTSIDE AIR TEMPERATURE
AP	ACCESS PANEL	FPM	FEET PER MINUTE	OC	ON CENTER
B/G	BELOW GROUND	GC	GENERAL CONTRACTOR	SF	SUPPLY FAN
BMS	BUILDING MANAGEMENT SYSTEM	GH	GRAVITY HOOD	SP	STATIC PRESSURE
BOG	BOTTOM OF GRILLE	GPH	GALLONS PER HOUR	TYP	TYPICAL
BOH	BOTTOM OF HEATER	GPM	GALLONS PER MINUTE	UON	UNLESS OTHERWISE NOTED
BOU	BOTTOM OF UNIT	HD	HAND DAMPER	V	VENT
CFM	CUBIC FEET PER MINUTE	HP	HORSE POWER	W	WASTE
DB	DRY BULB	IE	INVERT ELEVATION	WB	WET BULB
DH	DEHUMIDIFICATION UNIT	KW	KILOWATT	WG	WATER GAGE
DN	DOWN	MCA	MINIMUM CIRCUIT AMPACITY	WL	WALL LOUVER
EAT	ENTERING AIR TEMPERATURE	MFR	MANUFACTURER	WMS	WIRE MESH SCREEN

DESICCANT DEHUMIDIFICATION UNIT

EQUIPMENT TAG	PROCESS AIR FLOW (SCFM)	REACTIVATION AIR FLOW (SCFM)	REACTIVATION HEATER (KW)	DESICCANT WHEEL DRIVE MOTOR (HP)	MOISTURE REMOVAL CAPACITY (LBS/HR)	ELECTRICAL			MODEL	REMARKS
						VOLT/PH/HZ	TOTAL CONNECTED LOAD (AMPS)	MOPD		
DH-SV-1	150	50	1.75	1/40	3.8	460/3/60	4.7	20	GC-150	1 THRU 5
DH-DV-1	150	50	1.75	1/40	3.8	460/3/60	4.7	20	GC-150	1 THRU 5

GENERAL NOTES:

- BASIS OF DESIGN IS MUNTERS

ACCESSORIES:

- SELF-CONTAINED, HONEYCOMB DESICCANT WHEEL TYPE DEHUMIDIFIER UNIT
- BUILT-IN HYGROMETER AND HUMIDISTAT FOR HUMIDITY CONTROL
- ALUMINUM CABINET WITH LIGHT GRAY ENAMEL PAINT
- VERICAL UNIT
- CONTACT AIR SEALS TO SEPARATE PROCESS AND REACTIVATION AIR STREAMS

FAN SCHEDULE

EQUIPMENT TAG	LOCATION	SERVICE	AIR FLOW (CFM)	ESP (IN. W.G.)	FAN RPM	DRIVE	ELECTRICAL		MAKE & MODEL		REMARKS
							MOTOR HP	VOLT/PH/HZ	MFR	MODEL	
EF-SV-1	VALVE VAULT	EXHAUST	750	0.4	1,210	DIRECT	1/4	120/1/60	GREENHECK	G-103-VG	1, 2, 3
EF-DV-1	METER VAULT	EXHAUST	1,050	0.5	1,180	DIRECT	1/4	120/1/60	GREENHECK	G-123-VG	1, 2, 3

GENERAL NOTES:

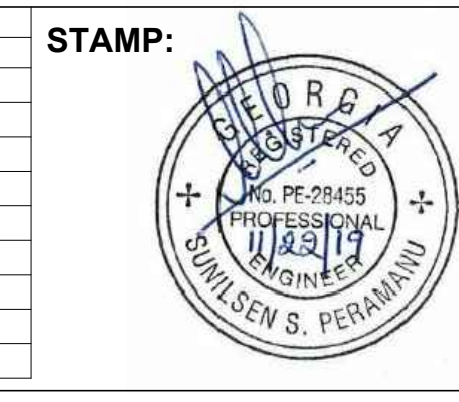
- OR EQUAL BY LOREK COOK

ACCESSORIES:

- VARI-GREEN EC MOTOR
- PROVIDE DISCONNECT SWITCH
- PROVIDE BACK DRAFT DAMPER, AND BIRD SCREEN



No.	Description	Date



ADDRESS: **ENGINEERED SYSTEMS & SERVICES**
2950 Horizon Park Drive, Suite B, Marietta, GA 30064
Phone: 770-810-5700 Fax: 770-822-9206

PROJECT NO:	TASK 1
DESIGNED BY:	SP
DRAWN BY:	NM
CHECKED BY:	SP
DATE:	11-22-2019
SCALE:	AS NOTED

CITY OF ATLANTA DEPT. OF WATERSHED MANAGEMENT
WATER SUPPLY PROGRAM
RIVER INTAKE PUMP STATION
NOTES, LEGENDS, ABBREVIATIONS AND SCHEDULES

DRAWING NO. **RI-PS**
M7-001
SHEET OF