

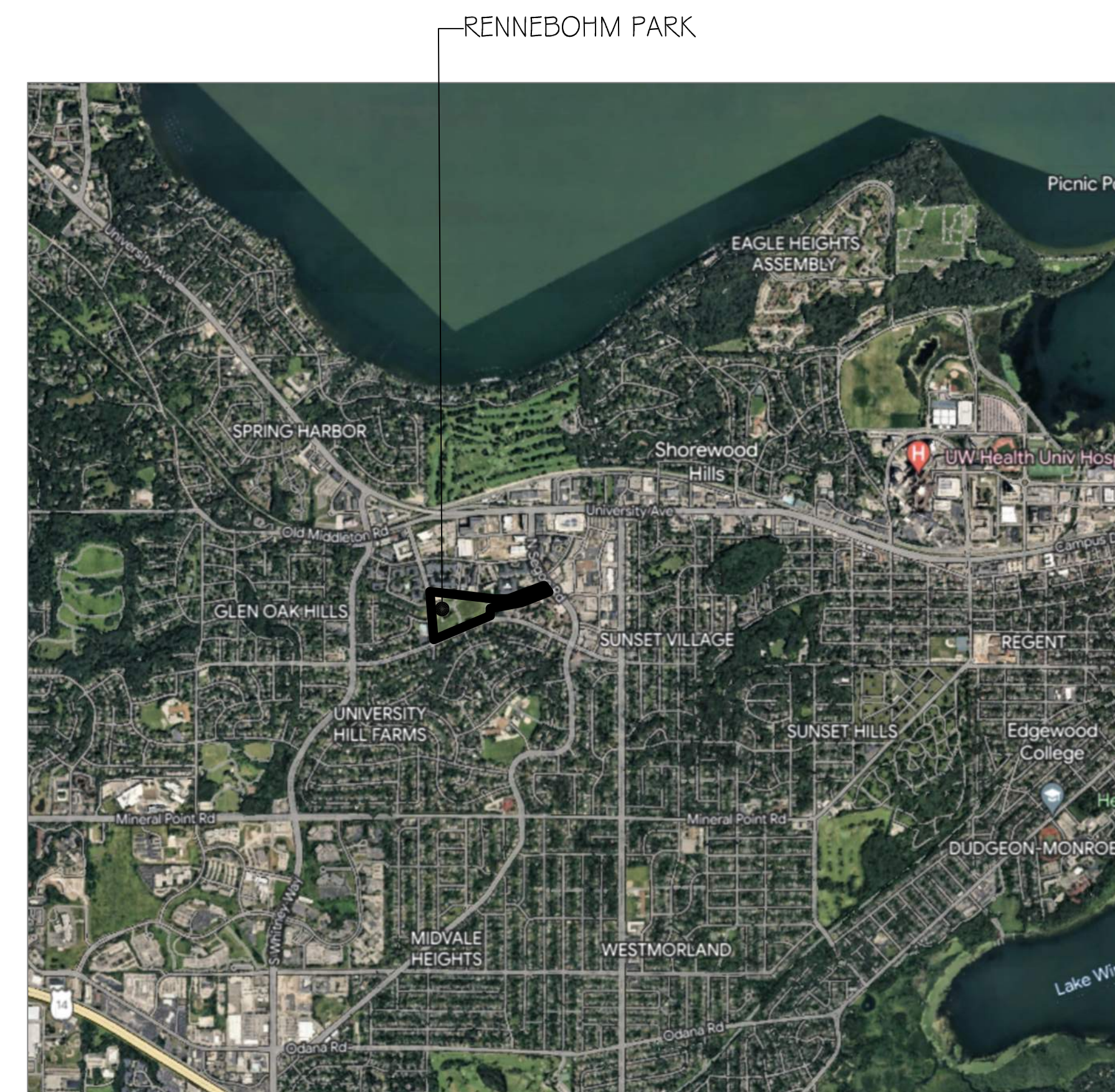
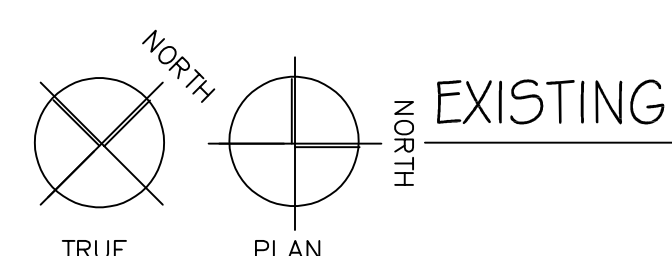
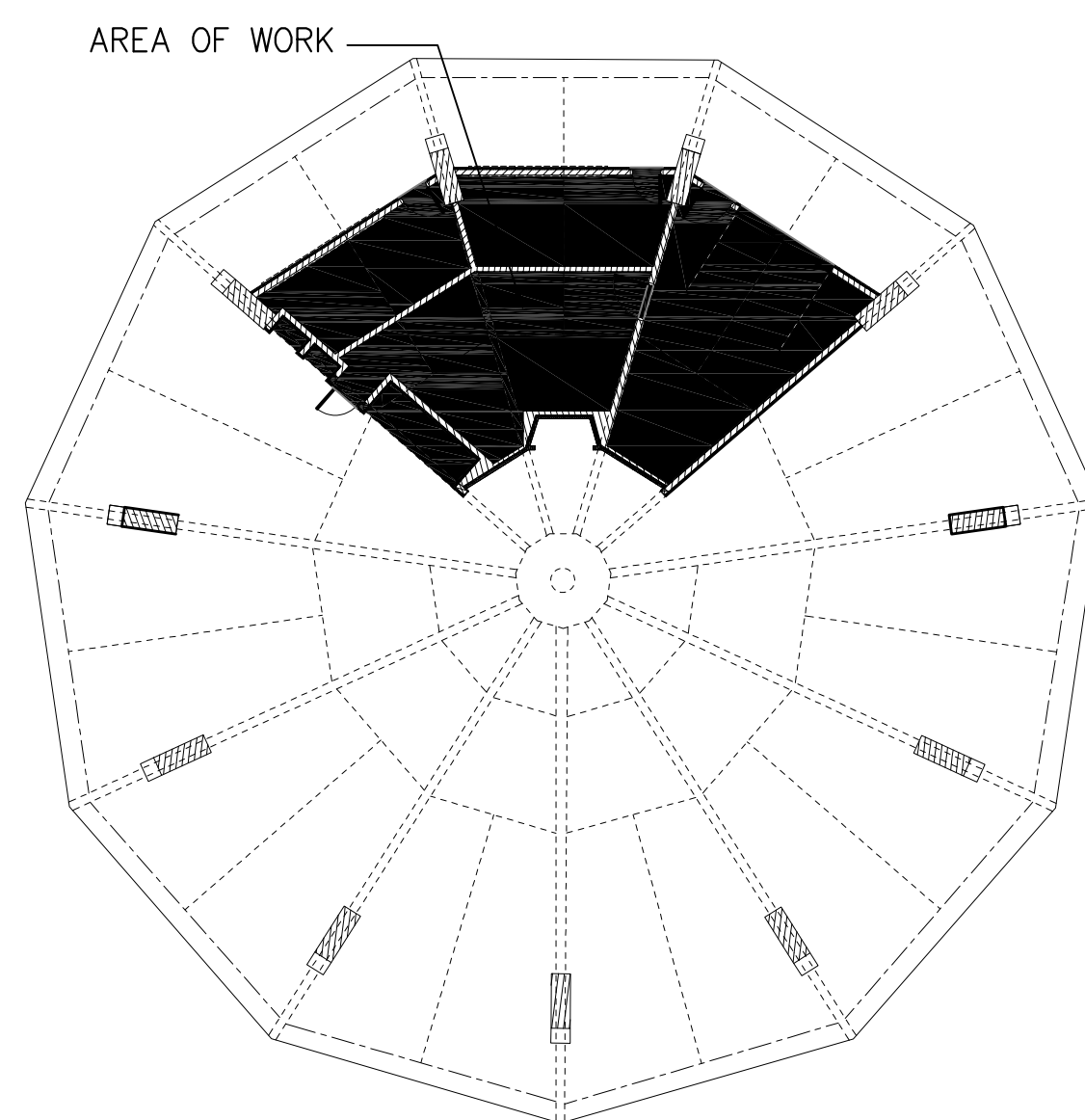


RENNEBOHM PARK SHELTER RESTROOM RENOVATION

CONTRACT #9485

115 EAU CLAIRE AVE.
MADISON, WI 53705

JANUARY 19, 2024

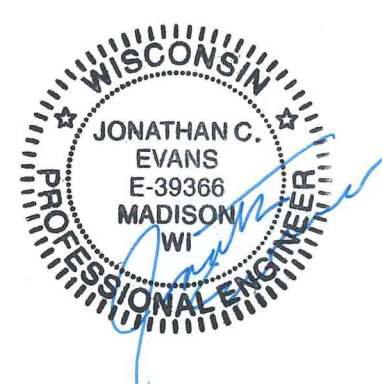


GENERAL NOTES:

- UNLESS SPECIFICALLY NOTED IN THE PLANS AND SPECIFICATIONS AS WORK OR MATERIALS BY OTHERS, THE CONTRACTOR SHALL ASSUME THE RESPONSIBILITIES OF WORK AND MATERIALS FOR THIS CONTRACT.
- THE CONTRACTOR SHALL FURNISH ANY APPARATUS, APPLIANCE, MATERIAL, OR LABOR THAT MAY BE NECESSARY TO COMPLETE THE WORK, IN ACCORDANCE WITH THE INTENT OF THIS CONTRACT.
- THE CONTRACTOR SHALL USE PROPERLY FUNCTIONING EQUIPMENT CAPABLE OF PERFORMING THE TASKS REQUIRED.
- THE CONTRACTOR SHALL FURNISH WORKERS WHO PERFORM QUALITY WORK AND WHO ARE EXPERIENCED AND KNOWLEDGEABLE IN THE WORK PROPOSED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION AND RESTORATION OF ALL NEW AND EXISTING WORK, INCLUDING EXISTING WALKWAYS FROM THE DESIGNATED BUILDING ENTRANCE TO THE CONSTRUCTION AREA, WHICH SHALL REMAIN FREE OF DIRT, MUD, SNOW, SPILLS, SPLATTERS AND PHYSICAL DAMAGE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING THE IMMEDIATE AREA AROUND THE PROJECT LIMITS AND ENTRY DOORS CLEAN AND FREE OF CONSTRUCTION MATERIALS AND DEBRIS. THE CONTRACTOR SHALL INSTALL TEMPORARY TARPING AS NEEDED TO KEEP ALL CONSTRUCTION DEBRIS CONFINED TO THE IMMEDIATE PROJECT AREA.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL CLEAN UP OF ALL AREAS AFFECTED BY THIS CONTRACT BEFORE FINAL CONTRACT CLOSEOUT.
- THE CONTRACTOR SHALL NOT TAKE ADVANTAGE OF ANY DISCREPANCY IN THE PLANS OR SPECIFICATIONS. THIS SHALL INCLUDE BUT NOT BE LIMITED TO APPARENT ERRORS, OMISSIONS, AND INTERPRETATIONS INVOLVING CODES, REGULATIONS, AND STANDARDS.
- ANY CONTRACTOR WHO IDENTIFIES SUCH A DISCREPANCY DURING THE BIDDING PROCESS SHALL NOTIFY THE CITY PROJECT MANAGER OF THE DISCREPANCY.
- ANY CONTRACTOR WHO IDENTIFIES SUCH A DISCREPANCY AFTER THE BIDDING PROCESS AND/OR AFTER CONTRACT SIGNING SHALL IMMEDIATELY NOTIFY THE CITY PROJECT MANAGER IN WRITING AND REQUEST CLARIFICATION ON HOW TO PROCEED.
- ALL DESIGN AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL LOCAL AND STATE OF WISCONSIN BUILDING CODES LATEST EDITION.
- THE CITY OF MADISON BUILDING PERMIT WILL BE SECURED BY THE OWNER. THE CONTRACTOR SHALL BE REQUIRED TO APPLY FOR AND OBTAIN ALL PERMITS OR LICENSES THAT MAY BE REQUIRED BY THESE CONTRACT DOCUMENTS REGARDLESS OF ORDINANCE, STATUTE, OR OTHER REGULATORY REQUIREMENT.
- CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL INSPECTIONS RELATED TO ALL PERMITS AND LICENSES. RE-INSPECTION FEES ASSOCIATED WITH NON-COMPLAINT OR INCOMPLETE WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- EXISTING INFORMATION SHOWN ON DRAWINGS IS BASED ON RECORD DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ACCURACY OF EXISTING INFORMATION AS REQUIRED TO ACCOMMODATE NEW CONSTRUCTION.

LANDS FOR WORK:

- NO TOBACCO PRODUCT USE IS ALLOWED ON THE PROPERTY.
- WORK SHALL BE PERFORMED BETWEEN THE HOURS OF 7:00 A.M. TO 5:00 P.M.



PUBLIC IMPROVEMENT PROJECT APPROVED: RES 80758	PUBLIC IMPROVEMENT DESIGN APPROVED BY:
FILE ID 9485	CITY ENGINEER <i>J. Evans</i>
DATE December 5, 2023	DATE 01/23/2024
BY THE COMMON COUNCIL OF MADISON, WI	

**VOLUME 1:
ARCHITECTURAL**

**VOLUME 2:
MECHANICAL
ELECTRICAL
PLUMBING**

SHEET INDEX:

- TS1 TITLE SHEET
- S1 SITE PLAN
- EX1 EXISTING PLAN AND ELEVATION
- D1 DEMOLITION PLAN
- G1 GENERAL NOTES
- A0 FOUNDATION PLAN
- A1 RESTROOM FLOOR PLAN
- A2 ROOF PLAN
- A3 BUILDING ELEVATIONS AND DETAILS
- A4 PROPOSED SOUTHWEST ELEVATION
- A5 WALL SECTION
- A6 BUILDING SECTION & WINDOW DETAILS
- A7 BUILDING SECTION & INTERIOR ELEVATIONS

- PD1 PLUMBING DEMOLITION PLAN
- P1 WASTE AND VENT PLAN
- P2 NON-POTABLE COLD WATER PLAN
- P3 POTABLE WATER PLAN
- P4 PLUMBING DETAILS
- P5 SUPPLY RISER DIAGRAM
- P6 WASTE & VENT RISER DIAGRAM
- P7 PLUMBING SCHEDULE & NOTES
- EP1 ELECTRICAL POWER PLAN, SCHEDULE & NOTES
- EL1 ELECTRICAL LIGHTING PLAN, SCHEDULE & NOTES
- H1 HVAC PLAN, SCHEDULE & NOTES



CITY OF MADISON
DEPT OF PUBLIC WORKS
ENGINEERING DIVISION
CITY COUNTY BLDG RM 115
210 MARTIN LUTHER KING JR BLVD
MADISON, WI 53703
PHONE: 608-266-4751

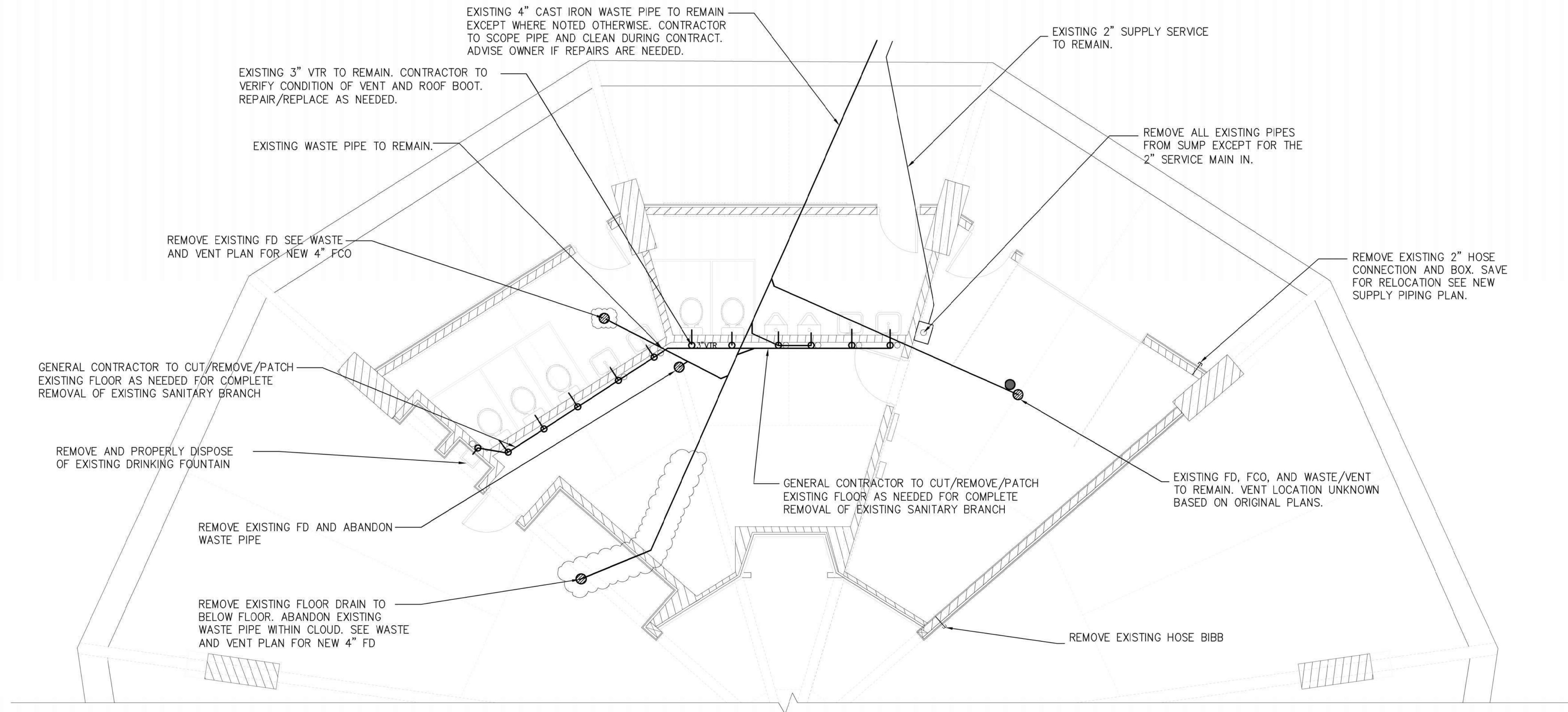
RENNEBOHM PARK SHELTER RESTROOM RENOVATION
115 EAU CLAIRE AVE.
MADISON, WI 53705

CONTRACT	#9485
MUNIS	#14525
DRWN BY:	JPE
DATE	01/19/2024
REV:	XX/XX/XX

SHT
TS1

- SANITARY (S)
- SANITARY VENTILATION (V)
- COLD WATER (CW)
- COLD SOFT WATER (CSW)
- HOT WATER (HW)
- HOT WATER RETURN (HWR)

- VTR VENT THROUGH ROOF
- CO CLEAN OUT
- FCO FLOOR CLEAN OUT
- FD FLOOR DRAIN
- DF DRINKING FOUNTAIN
- HB HOSE BIBB
- WC WATER CLOSET
- WCO WALL CLEANOUT
- WH WATER HEATER
- WS WATER SOFTENER



PLUMBING DEMOLITION PLAN
 SCALE: 1/4" = 1'-0"

GENERAL NOTES:

1. PLUMBING CONTRACTOR SHALL REMOVE ALL EXISTING WASTE, VENT, SUPPLY PIPING, FIXTURES AND FIXTURE CARRIERS ABOVE FLOOR EXCEPT WHERE NOTED NOT TO DO SO
2. PLUMBING CONTRACTOR SHALL COORDINATE ALL FLOOR OPENINGS WITH THE GENERAL CONTRACTOR. GC IS RESPONSIBLE FOR ALL CONCRETE SAWCUTTING, CONCRETE REMOVAL, AND PROPER DISPOSAL, AND INSTALLATION OF NEW CONCRETE PER PLANS AND DETAILS.

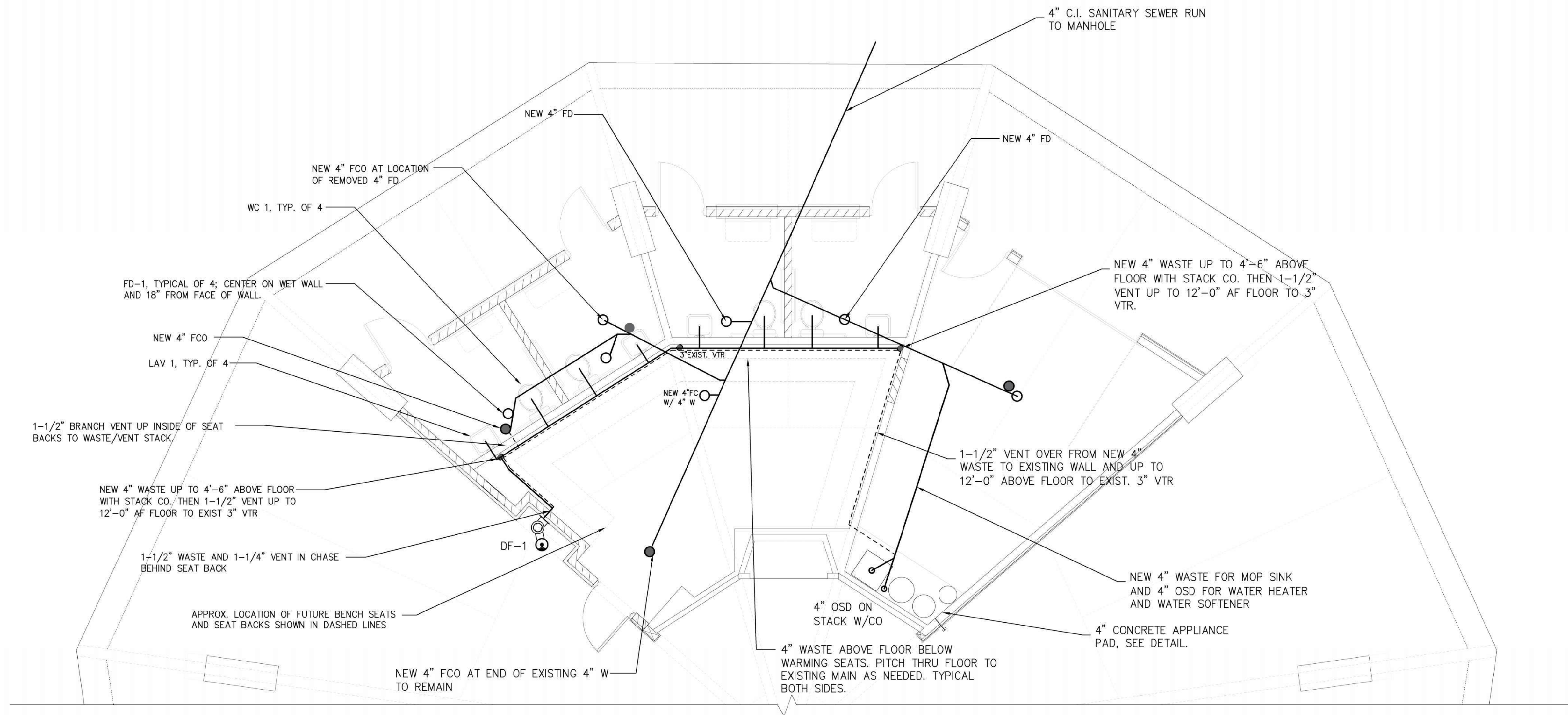


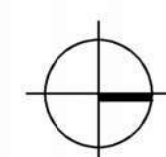
CITY OF MADISON
 DEPT OF PUBLIC WORKS
 ENGINEERING DIVISION
 CITY COUNTY BLDG RM 115
 210 MARTIN LUTHER KING JR BLVD
 MADISON, WI 53703
 PHONE: 608-266-4751

RENNEBOHM PARK SHELTER RESTROOM RENOVATION

CONTRACT
#9485
MUNIS
#14525
DRWN BY: JPE
DATE 01/19/2024
REV: XX/XX/XX

SHT
 PD1



 NORTH
WASTE AND VENT PLAN
 SCALE: 1/4" = 1'-0"

GENERAL NOTES:

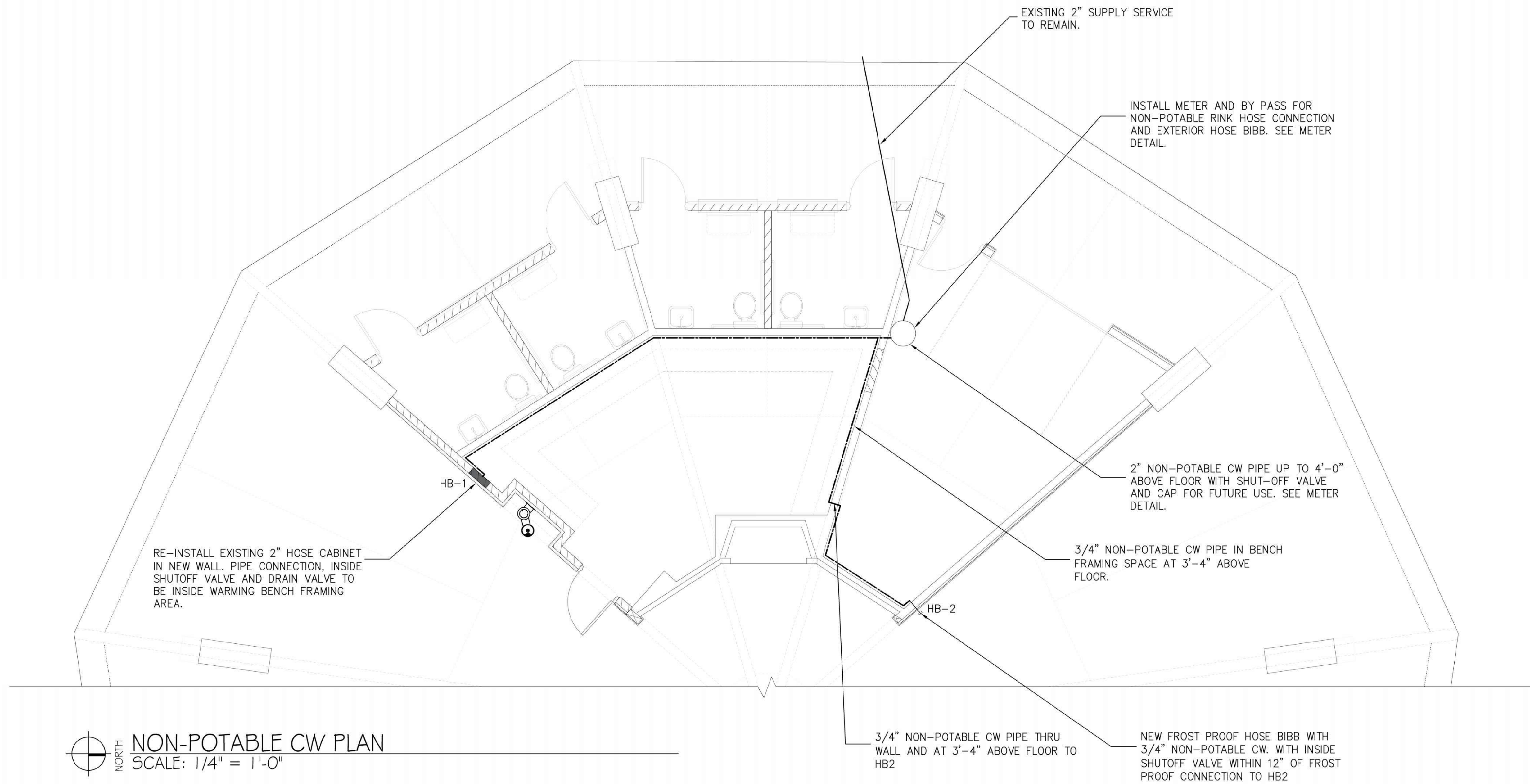
1. PLUMBING CONTRACTOR RESPONSIBLE FOR VERIFYING ALL BURIED PIPE PRIOR TO BEGINNING ANY WORK
2. HOLD PIPING TIGHT TO WALLS TO ACCOMMODATE FUTURE BUILD OUT OF WARMING ROOM BENCH SEATS AND SEAT BACKS

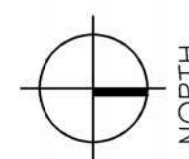
CONTRACT
#9485
MUNIS
#14525
DRWN BY: JPE
DATE 01/19/2024
REV: XX/XX/XX



CITY OF MADISON
 DEPT OF PUBLIC WORKS
 ENGINEERING DIVISION
 CITY COUNTY BLDG RM 115
 210 MARTIN LUTHER KING JR BLVD
 MADISON, WI 53703
 PHONE: 608-266-4751

RENNEBOHM PARK SHELTER RESTROOM RENOVATION



 NORTH
NON-POTABLE CW PLAN
 SCALE: 1/4" = 1'-0"

GENERAL NOTES:

1. ALL PIPES AND FITTINGS SHALL HAVE A MINIMUM 1-1/2" INSULATION
2. SEE RISER DIAGRAM FOR VALVES AND BLOW OUT FIXTURES
3. ALL NON-POTABLE CW LINES TO RECEIVE LABEL AND FLOW DIRECTION ARROWS AT A MINIMUM OF 10 FEET OC AND BOTH SIDES OF WALL PENETRATION
4. HOLD PIPING TIGHT TO WALLS TO ACCOMMODATE FUTURE BUILD OUT OF WARMING ROOM BENCH SEATS AND SEAT BACKS

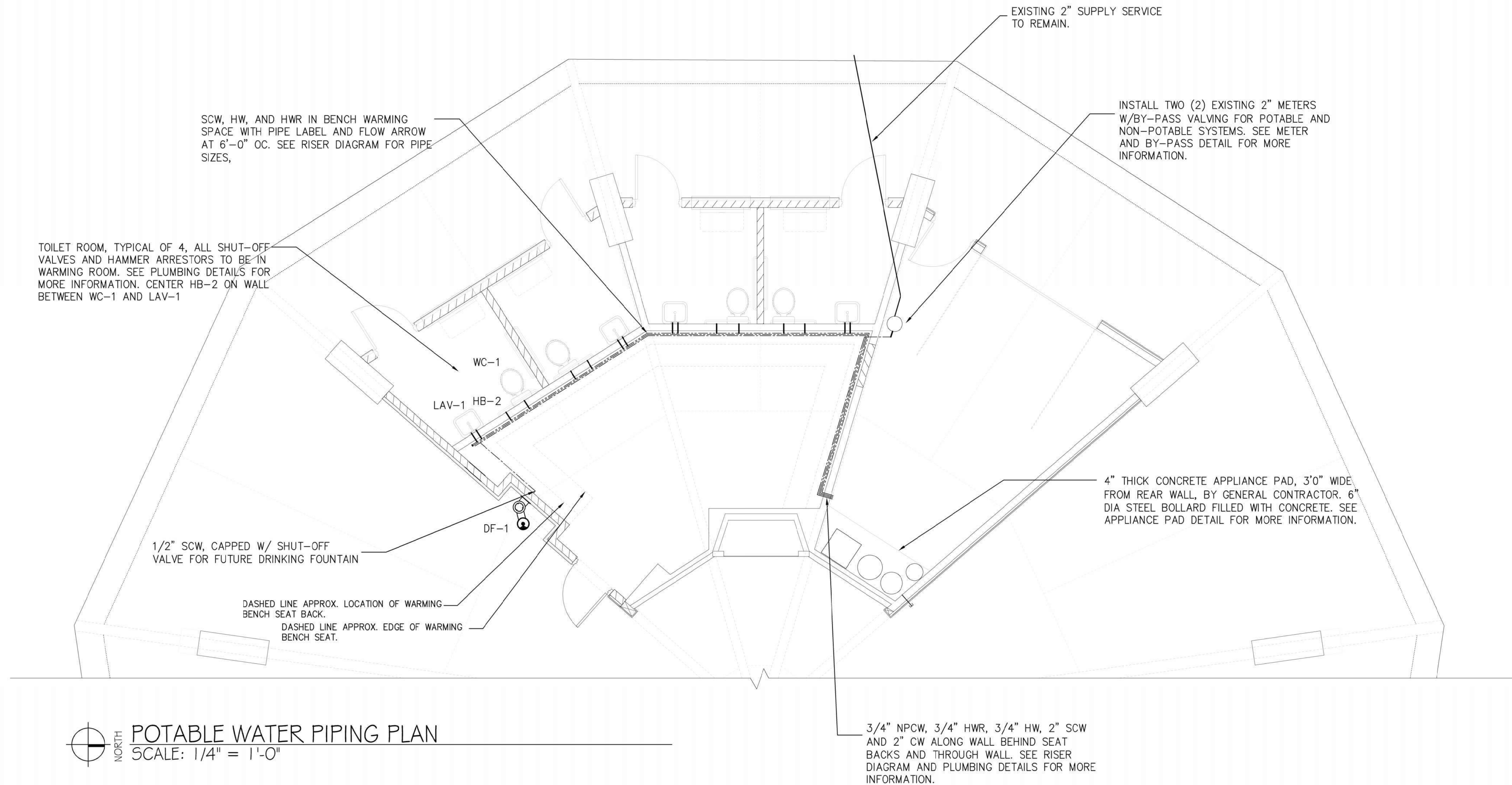
CONTRACT
#9485
MUNIS
#14525
DRWN BY: JPE
DATE 01/19/2024
REV: XX/XX/XX

SHT
 P2



CITY OF MADISON
 DEPT OF PUBLIC WORKS
 ENGINEERING DIVISION
 CITY COUNTY BLDG RM 115
 210 MARTIN LUTHER KING JR BLVD
 MADISON, WI 53703
 PHONE: 608-266-4751

RENNEBOHM PARK SHELTER RESTROOM RENOVATION



GENERAL NOTES:

1. ALL PIPES AND FITTINGS SHALL HAVE A MINIMUM 1-1/2" INSULATION.
2. SEE RISER DIAGRAM FOR VALVES AND BLOW OUT FIXTURES.
3. ALL ELECTRIC TRANSFORMERS FOR WC FLUSH VALVES AND ELECTRIC FAUCET SHALL BE LOCATED IN THE WARMING ROOM. ELEC CONTRACTOR TO PROVIDE POWER AND PASS THROUGH WALL CONDUIT FOR WIRES.
4. LAV MIXING VALVES TO BE LOCATED IN THE WARMING ROOM.
5. HOLD PIPING TIGHT TO WALLS TO ACCOMMODATE FUTURE BUILD OUT OF WARMING ROOM BENCH SEATS AND SEAT BACKS
6. INSULATE PIPING AND TRAP BELOW LAVATORY (TYP OF 4) FOR COMPLIANCE WITH ADA REQUIREMENTS

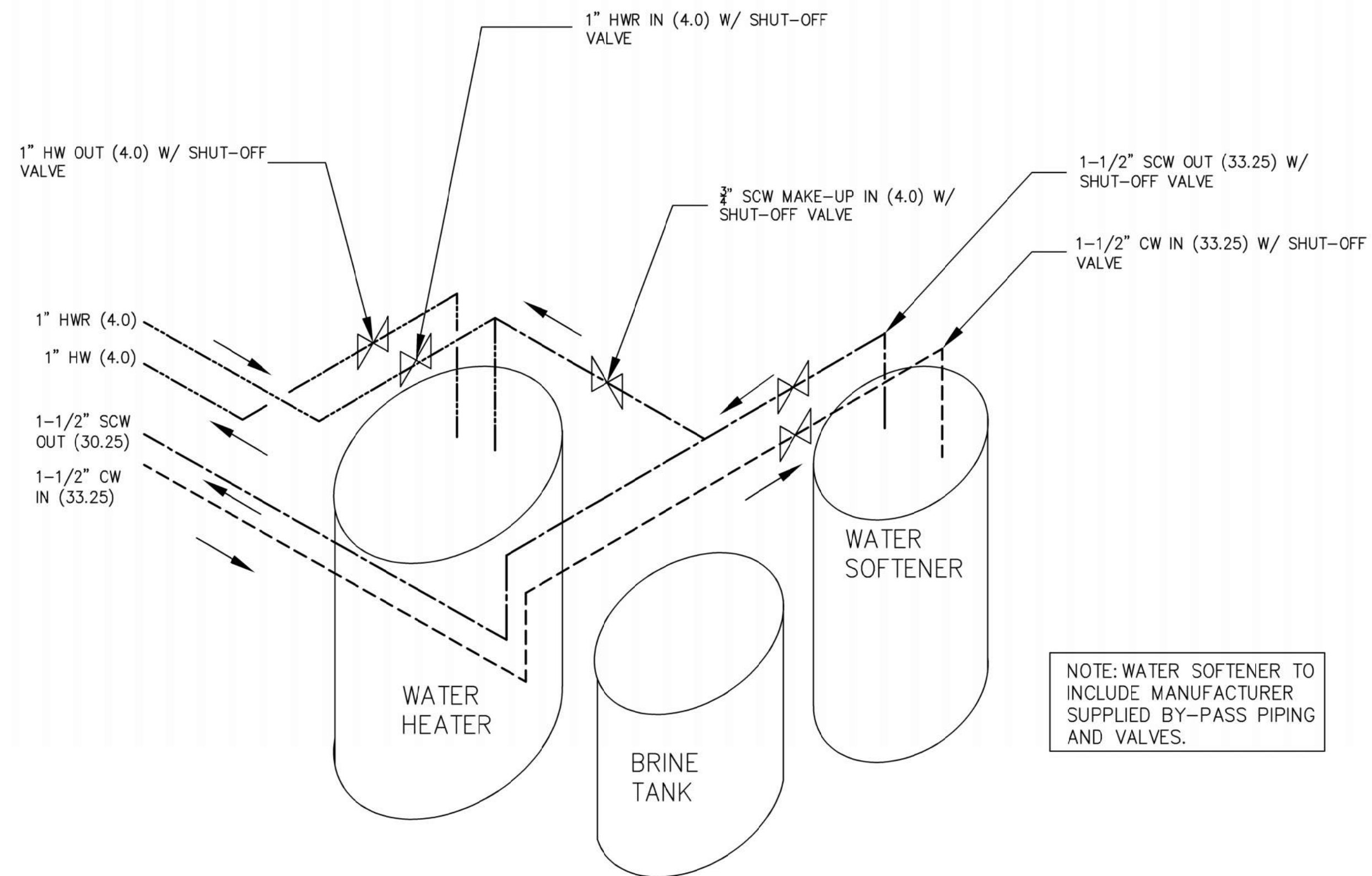
CONTRACT	#9485
MUNIS	#14525
DRWN BY:	JPE
DATE	01/19/2024
REV:	XX/XX/XX

SHT
 P3

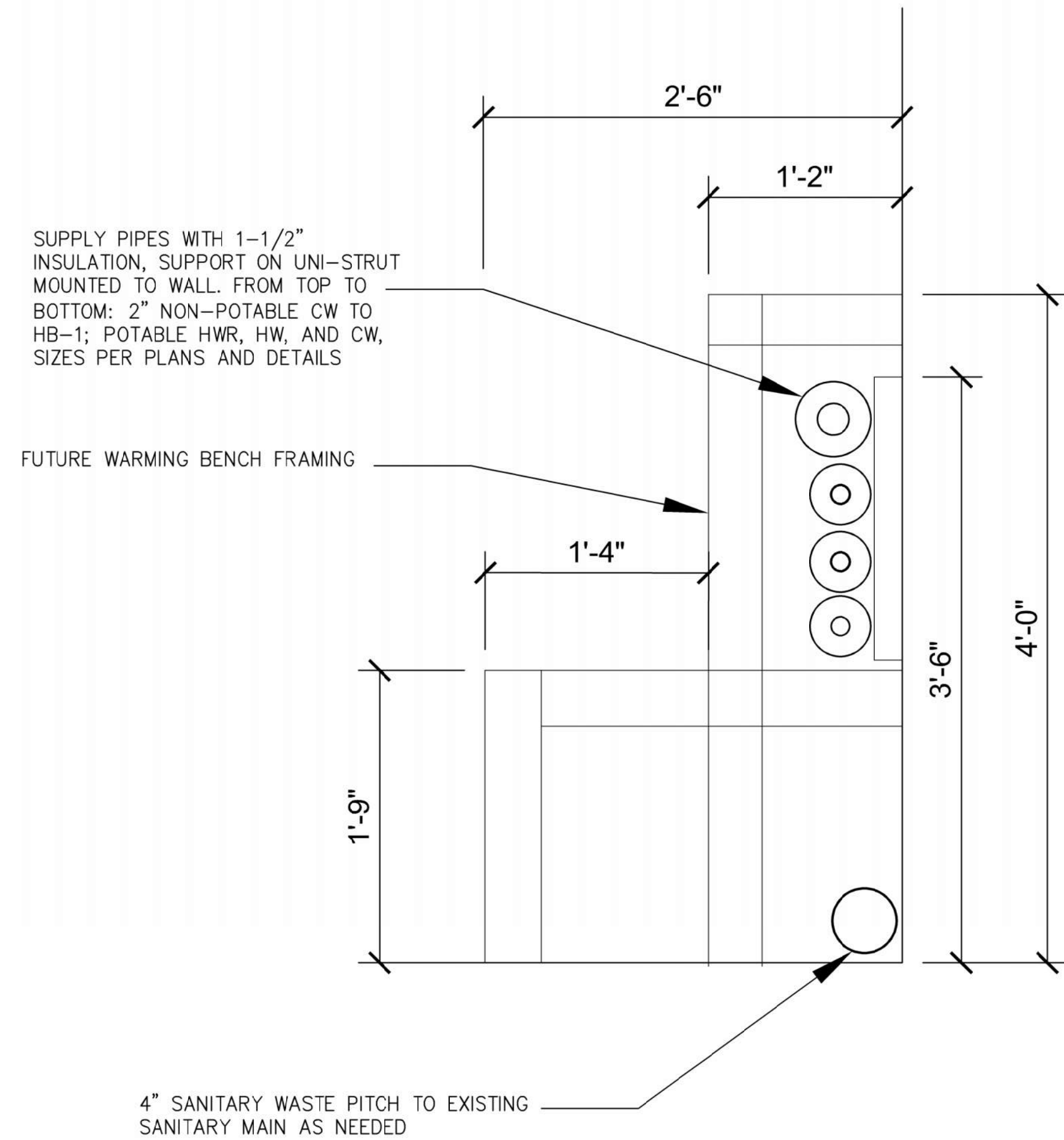


CITY OF MADISON
 DEPT. OF PUBLIC WORKS
 ENGINEERING DIVISION
 CITY COUNTY BLDG. RM. 115
 210 MARTIN LUTHER KING JR. BLVD.
 MADISON, WI 53703
 PHONE: 608-266-4751

RENNEBOHM PARK SHELTER RESTROOM RENOVATION

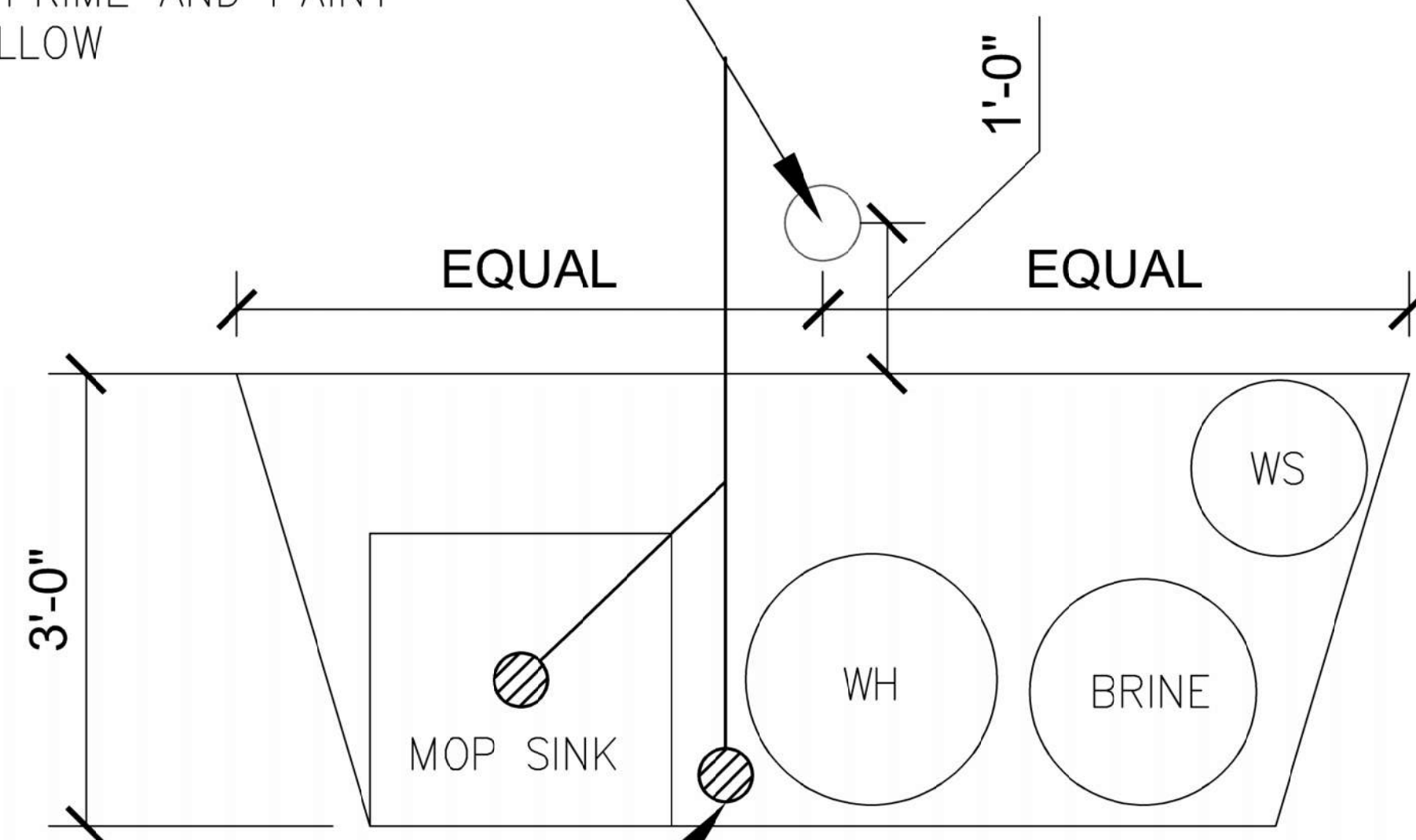


HEATER AND SOFTENER DETAIL



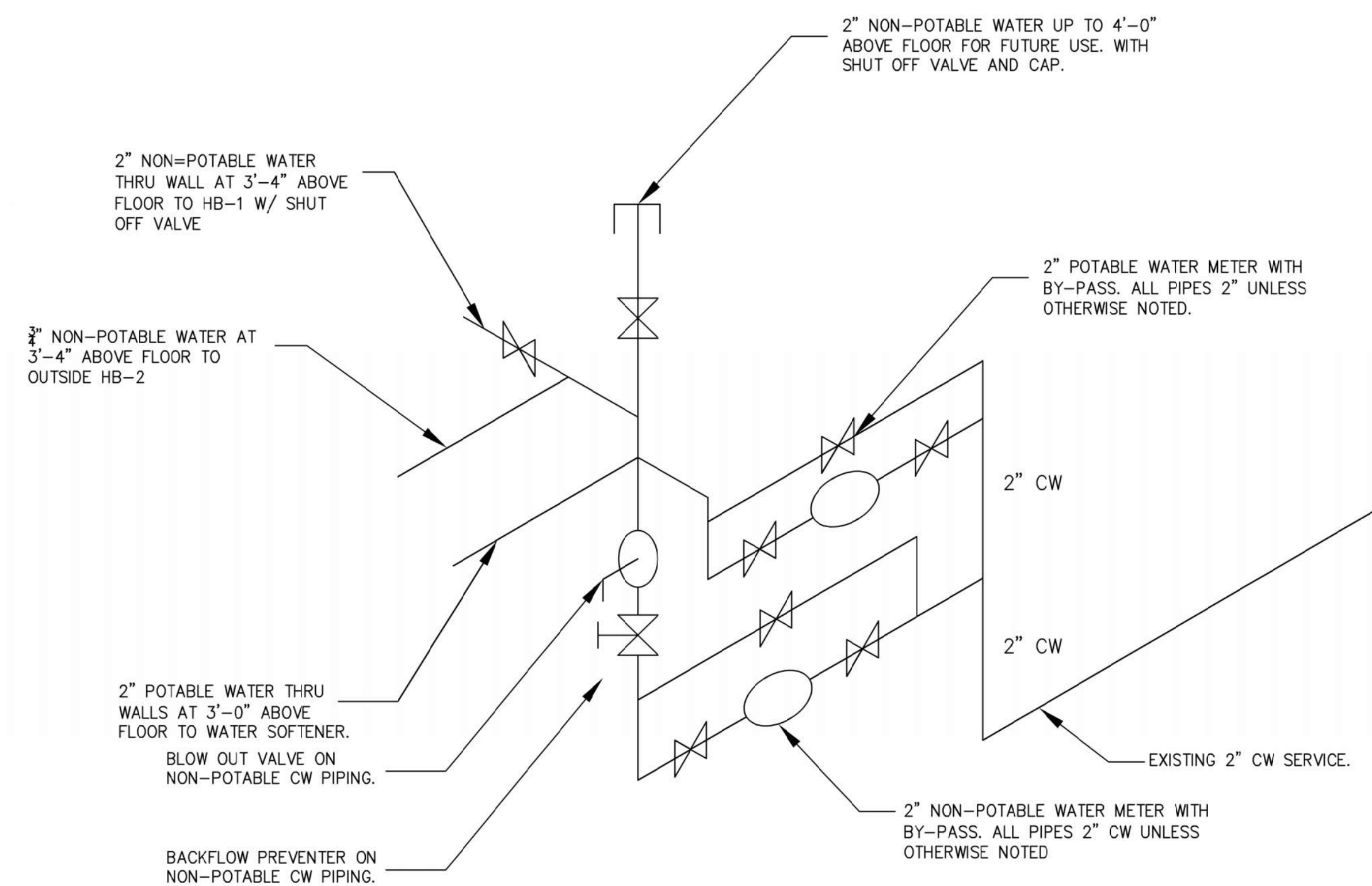
PIPING STACK DETAIL

6" DIA. STEEL BOLLARD. FILL W/ CONCRETE, PRIME AND PAINT TRAFFIC YELLOW



OSD ON STACK W/ CO FOR WH AND WS

APPLIANCE PAD DETAIL
 SCALE: 3/4" = 1'-0"



METER DETAIL

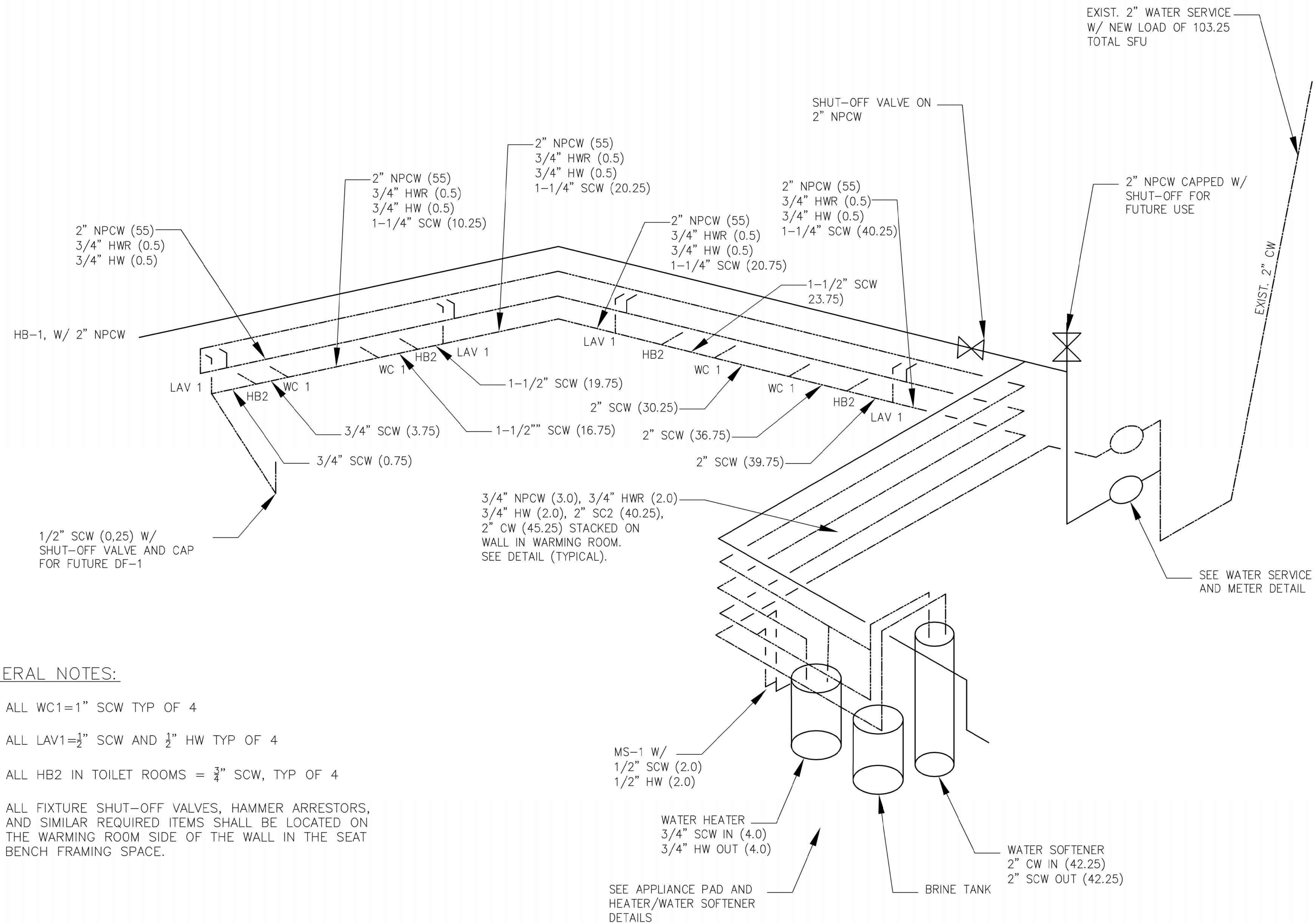
CONTRACT #9485
 MUNIS #14525
 DRWN BY: JPE
 DATE 01/19/2024
 REV: XX/XX/XX

SHT P4



CITY OF MADISON
 DEPT OF PUBLIC WORKS
 ENGINEERING DIVISION
 CITY COUNTY BLDG RM 115
 210 MARTIN LUTHER KING JR BLVD
 MADISON, WI 53703
 PHONE: 608-266-4751

RENNEBOHM PARK SHELTER RESTROOM RENOVATION

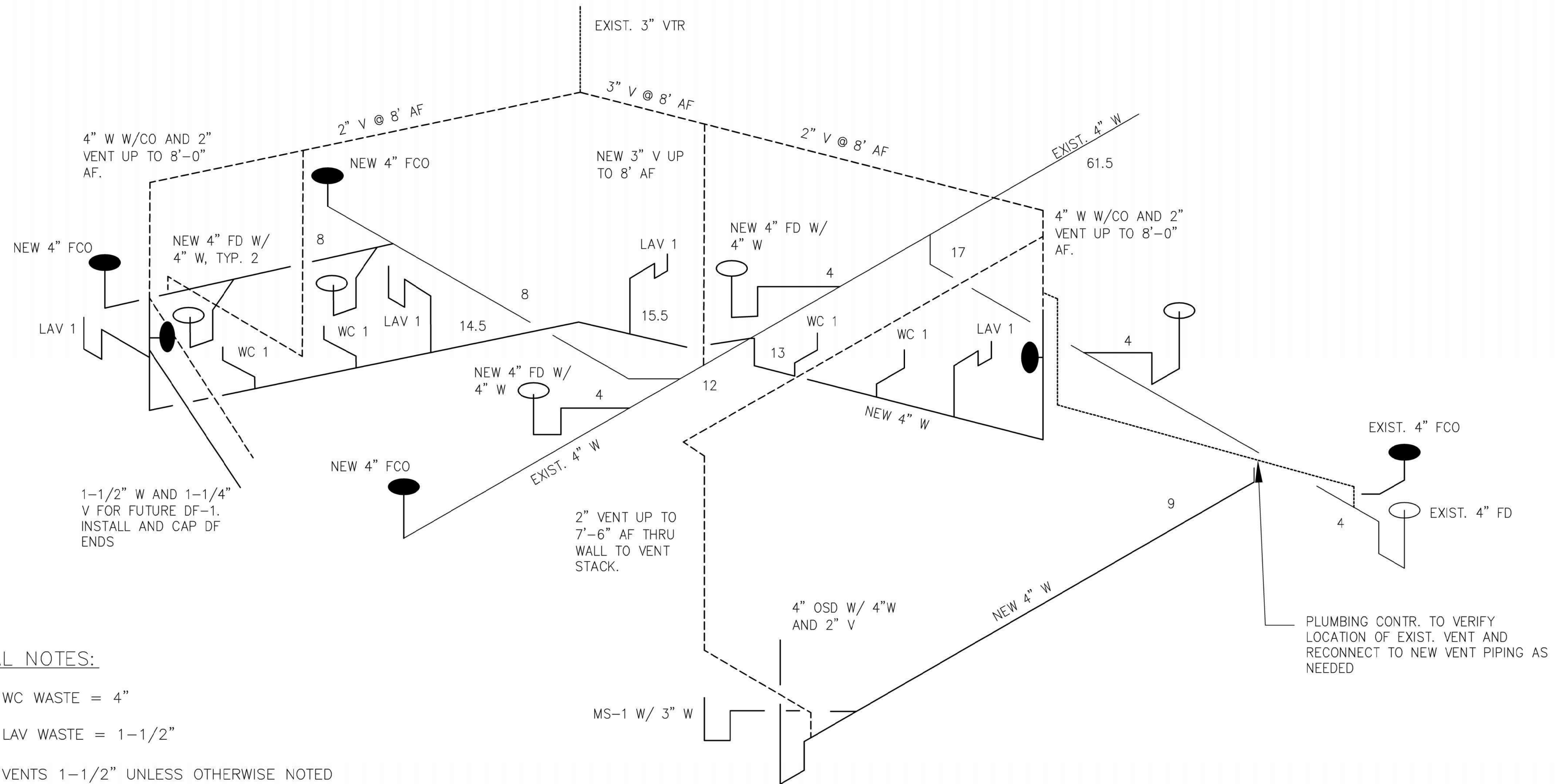


GENERAL NOTES:

1. ALL WC1=1" SCW TYP OF 4
2. ALL LAV1=1/2" SCW AND 1/2" HW TYP OF 4
3. ALL HB2 IN TOILET ROOMS = 3/4" SCW, TYP OF 4
4. ALL FIXTURE SHUT-OFF VALVES, HAMMER ARRESTORS, AND SIMILAR REQUIRED ITEMS SHALL BE LOCATED ON THE WARMING ROOM SIDE OF THE WALL IN THE SEAT BENCH FRAMING SPACE.

SUPPLY RISER DIAGRAM

CONTRACT	#9485
MUNIS	#14525
DRWN BY:	JPE
DATE	01/19/2024
REV:	XX/XX/XX



GENERAL NOTES:

1. ALL WC WASTE = 4"
2. ALL LAV WASTE = 1-1/2"
3. ALL VENTS 1-1/2" UNLESS OTHERWISE NOTED

WASTE + VENT RISER DIAGRAM

CONTRACT	#9485
MUNIS	#14525
DRWN BY:	JPE
DATE	01/19/2024
REV:	XX/XX/XX



CITY OF MADISON
DEPT OF PUBLIC WORKS
ENGINEERING DIVISION
CITY COUNTY BLDG RM 115
210 MARTIN LUTHER KING JR BLVD
MADISON, WI 53703
PHONE: 608-266-4751

- PLUMBING GENERAL NOTES:**
1. PLUMBING CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL EXISTING CONDITIONS.
 2. COORDINATE PHASING OF WORK WITH GENERAL CONTRACTOR.

RENNEBOHM PARK SHELTER RESTROOM RENOVATION

Mark	Manufacturer/Model	Qty.	CW Size	HW Size	Waste Size	Vent Size	Remarks	Indiv SFU			Total SFU			DFU		
								CW	HW	Total	CW	HW	Total	DFU	Total DFU	
DF-1	Elkay. LK44008BF;Outdoor ezH2O Bottle Filling Station and Single Fountain.	1	1/2"	N/A	N/A	N/A	Informational only, DRINKING FOUNTAIN NOT IN CONTRACT. Install waste and vent, cap waste, install valved water line. For future installation by owner.	0.25	N/A	0.25	0.25	N/A	0.25	0.50	0.50	
HB-1	N/A	1	2"	N/A	N/A	N/A	Re-use/relocate existing 2" hose cabinet.	55.00	N/A	55.00	55.00	N/A	55.00	N/A	N/A	
HB-2	Woodford, Model 67	5	3/4"	N/A	N/A	N/A	Pipe mounted anti-freeze, in wall hose bibb, with automatic draining anti-siphon vacuum breaker. Finish = brass	3.00	0.00	3.00	15.00	0.00	15.00	N/A	N/A	
LAV-1	Kohler Kingston, K-1729, white vitreous china, wall mounted, 3 hole-4" centers.	4	1/2"	1/2"	1-1/4"	1-1/4"	Kohler 8998 ADA compliant P-trap with cleanout. Zurn Z-1231 concealed arm carrier. See note 1 below for faucet and insulation requirements.	0.50	0.50	1.00	2.00	2.00	4.00	1.00	4.00	
WC-1	Kohler Kingston, K-4323, white vitreous china, wall mounted, elongated bowl.	4	1"	N/A	4"	1-1/2"	Rear spud, mount rim 16" above floor, Zurn Z1201-N3 wall carrier. See note 2 below for flush valve and seat requirements	6.50	N/A	6.50	26.00	N/A	26.00	6.00	24.00	
FD-1	JR Smith 2005Y-A-U-PB, round, no-hub, vandal proof, bronze.	5	N/A	N/A	4"	1-1/2"	With proset trap guard and 2010C-A-PB caulked outlet.	N/A	N/A	N/A	N/A	N/A	N/A	4.00	20.00	
OSD-1	JR Smith 3650, 8-1/2" with 3"x8" oval cup, no-hub, vandal proof, bronze.	1	N/A	N/A	4"	2"		N/A	N/A	N/A	N/A	N/A	N/A	6.00	6.00	
FCO	JR Smith 4021S-U-PB, round, no-hub, vandal proof, bronze.	4	N/A	N/A	4"	N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
MS-1	Mustee, 24"x24"x10" one piece Durastone mop sink.	1	1/2"	1/2"	3"	1-1/2"	With high impact vinyl bumper guards. T&S Brass B-0662 servce sink faucet, polished chrome, w/ wall plate and hose threaded vaccum breaker.	2.00	2.00	3.00	2.00	2.00	3.00	3.00	3.00	
WH-1	AO Smith DEN-30, 30 gal capacity, 23 GPH @ 80F Temp rise, 4500W, 240V single phase	1	3/4"	3/4"	N/A	N/A	Floor mounted on appliance pad. 18.8 FLA, T&P relief valve	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
WS-1	Hellenbrand Model H151-90-BD, Capacity=96,000 grain, 3.0 CF resin, 35GPM @ 15 PSI max WPD	N/A	1-1/2"	N/A	N/A	N/A	Softener size 14" dia x 65" tall. Brine Tank 18" dia x 40" tall (300 lb salt cap.), 1-1/2" valve manifold and MFR by-pass, metered demand-controlled regeneration. Provide bootom drain for winterizing.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Existing to Remain																
FD	N/A	1						N/A	N/A	N/A	N/A	N/A	N/A	4.00	4.00	
Totals								67.25	2.50	68.75	100.25	4.00	103.25	24.50	61.50	
NOTES																
1	Sloan ETF-600-P-BDM electric faucet with mechanical mixing valve. Sloan ETF-233 (120V) transformer to be located in the Warming Room. Prowrap 2000 insulation guards.															
2	Sloan Optima 152-1.6 ES-S sensor operated flush valve (1.5GPF). Sloan EL-154 (120V) transformer to be located in the Warming Room. Bemis 1995-SSCT 000 (white) open front seat.															
3	All LAV and WC installations shall meet ADA mounting requirements.															

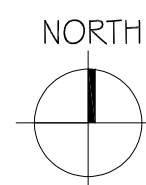
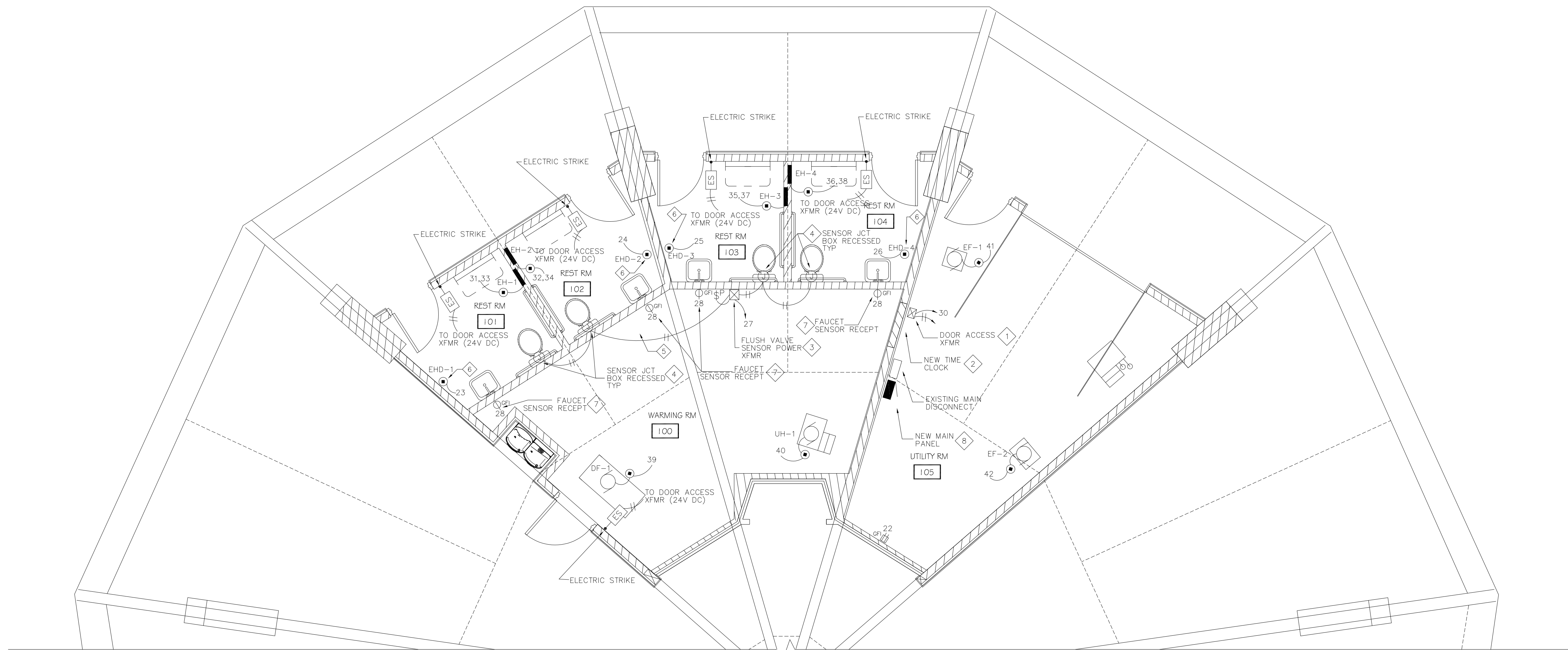
CONTRACT
#9485
MUNIS
#14525
DRWN BY: JPE
DATE 01/19/2024
REV: XX/XX/XX

SHT
P7



CITY OF MADISON
DEPT OF PUBLIC WORKS
ENGINEERING DIVISION
CITY COUNTY BLDG RM 115
210 MARTIN LUTHER KING JR BLVD
MADISON, WI 53703
PHONE: 608-266-4751

RENNEBOHM PARK SHELTER RESTROOM RENOVATION
115 EAU CLAIRE AVE.
MADISON, WI 53705



NEW ELECTRICAL - POWER
SCALE: 1/4" = 1'-0"

ELECTRICAL SYMBOL SCHEDULE

SYMBOL	DESCRIPTION
SWITCHES	
\$P	SINGLEPOLE - PILOT ILLUMINATED
SECURITY	
ES	ELECTRIC DOOR STRIKE
RECEPTACLES	
⊕	125V, 2P, 2W SINGLE RECEPTACLE
⊕ GF	DUPLEX: SURFACE MTD W/GROUND FAULT INTERRUPTION PROTECTION
EQUIPMENT AND WIRING	
●	DIRECT EQUIPMENT CONNECTION
○	MOTOR CONNECTION
⊙	JUNCTION BOX-CONCEALED IN FINISHED AREAS, SURFACE IN UNFINISHED AREAS
⊠	TRANSFORMER
■	ELECTRICAL POWER PANEL
EQUIPMENT	
DF	DUCT FURNACE
EF	EXHAUST FAN
EH	ELECT. HEATER
EHD	ELECT. HAND DRYER
UH	UNIT HEATER

PANEL 'MAIN'						
AMPS		VOLTS		MOUNTING		
AIC		PHASE		LOCATION		
200		120/240		SURFACE		
22K		1		UTILITY ROOM 105		
BRKR	DESCRIPTION	CIRCUIT NO.	CIRCUIT NO.	DESCRIPTION	BRKR	
A	P				A P	
20	1		1	EXISTING LOAD (CIRCUIT 1)	20	1
20	1		2	EXISTING LOAD (CIRCUIT 3)	20	1
20	1		3	EXISTING LOAD (CIRCUIT 4)	20	1
20	1		4	EXISTING LOAD (CIRCUIT 5)	20	1
20	1		5	EXISTING LOAD (CIRCUIT 6)	20	1
20	1		6	EXISTING LOAD (CIRCUIT 7)	20	1
20	1		7	EXISTING LOAD (CIRCUIT 8)	20	1
20	1		8	EXISTING LOAD (CIRCUIT 9)	20	1
20	1		9	EXISTING LOAD (CIRCUIT 10)	20	1
20	1		10	EXISTING LOAD (CIRCUIT 11)	20	1
20	1		11	EXISTING LOAD (CIRCUIT 12)	20	1
20	1		12	EXISTING LOAD (CIRCUIT 13)	20	1
20	1		13	EXISTING LOAD (CIRCUIT 14)	20	1
20	1		14	EXISTING LOAD (CIRCUIT 15)	20	1
20	1		15	EXISTING LOAD (CIRCUIT 16)	20	1
15	1		16	EXISTING LOAD (CIRCUIT 17)	15	1
20	1		17	EXISTING LOAD (CIRCUIT 18)	20	1
20	1		18	EXISTING LOAD (CIRCUIT 19)	20	1
60	2		19	EXISTING LOAD (CIRCUIT 20)	60	2
60	2		20	EXISTING LOAD (CIRCUIT 21)	60	2
60	2		21	EXISTING LOAD (CIRCUIT 22)	60	2
60	2		22	EXISTING LOAD (CIRCUIT 23)	60	2
60	2		23	EXISTING LOAD (CIRCUIT 24)	60	2
60	2		24	EXISTING LOAD (CIRCUIT 25)	60	2
60	2		25	EXISTING LOAD (CIRCUIT 26)	60	2
60	2		26	EXISTING LOAD (CIRCUIT 27)	60	2
60	2		27	EXISTING LOAD (CIRCUIT 28)	60	2
60	2		28	EXISTING LOAD (CIRCUIT 29)	60	2
60	2		29	EXISTING LOAD (CIRCUIT 30)	60	2
60	2		30	EXISTING LOAD (CIRCUIT 31)	60	2
60	2		31	EXISTING LOAD (CIRCUIT 32)	60	2
60	2		32	EXISTING LOAD (CIRCUIT 33)	60	2
60	2		33	EXISTING LOAD (CIRCUIT 34)	60	2
60	2		34	EXISTING LOAD (CIRCUIT 35)	60	2
60	2		35	EXISTING LOAD (CIRCUIT 36)	60	2
60	2		36	EXISTING LOAD (CIRCUIT 37)	60	2
60	2		37	EXISTING LOAD (CIRCUIT 38)	60	2
60	2		38	EXISTING LOAD (CIRCUIT 39)	60	2
60	2		39	EXISTING LOAD (CIRCUIT 40)	60	2
60	2		40	EXISTING LOAD (CIRCUIT 41)	60	2
60	2		41	EXISTING LOAD (CIRCUIT 42)	60	2
60	2		42	EXISTING LOAD (CIRCUIT 43)	60	2
60	2		43	EXISTING LOAD (CIRCUIT 44)	60	2
60	2		44	EXISTING LOAD (CIRCUIT 45)	60	2
60	2		45	EXISTING LOAD (CIRCUIT 46)	60	2
60	2		46	EXISTING LOAD (CIRCUIT 47)	60	2
60	2		47	EXISTING LOAD (CIRCUIT 48)	60	2
60	2		48	EXISTING LOAD (CIRCUIT 49)	60	2
60	2		49	EXISTING LOAD (CIRCUIT 50)	60	2
60	2		50	EXISTING LOAD (CIRCUIT 51)	60	2
60	2		51	EXISTING LOAD (CIRCUIT 52)	60	2
60	2		52	EXISTING LOAD (CIRCUIT 53)	60	2
60	2		53	EXISTING LOAD (CIRCUIT 54)	60	2
60	2		54	EXISTING LOAD (CIRCUIT 55)	60	2

ELECTRICAL GENERAL NOTES:

- COORDINATE ELECTRICAL RACEWAYS ROUTING WITH GENERAL CONTRACTOR AND OTHER TRADES FOR PROPER EQUIPMENT ACCESS.
- ALL RACEWAYS ARE TO BE CONCEALED IN FINISHED AREAS. MECHANICAL & UTILITY AREAS MAY USE SURFACE CONDUIT SYSTEMS.
- ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL CONSTRUCTION CONDITIONS.
- COORDINATE AND SCHEDULE ALL WORK WITH THE GENERAL CONTRACTOR AND LOW-VOLTAGE CABLING PRIOR TO STARTING.

ELECTRICAL POWER/LV PLAN NOTES:

- DOOR ACCESS TRANSFORMER (120 VAC/24 VDC) AND ELECTRIC STRIKE PROVIDED BY GENERAL CONTRACTOR AND WIRED BY ELECTRICAL TRADE. CONTROL XFMR POWER BY TIME CLOCK. ALL CABLING IN EMT RACEWAY SYSTEM.
- TIME CLOCK SHALL BE INTERMATIC MODEL ET1725C; EXHAUST FAN AND OCC SENSORS SHALL BE OCCUPIED MODE SCHEDULE; ELECTRIC STRIKE AUTO LOCK SHALL BE UNOCCUPIED MODE SCHEDULE; SET PER OWNER'S REQUESTED OCCUPIED/UNOCCUPIED SCHEDULES.
- COORDINATE POWER TO LOW-VOLTAGE TRANSFORMER FOR FLUSH VALVES BY PLUMBING TRADE. PROVIDE MASTER PILOT LIGHT SWITCH FOR POWER TO FLUSH VALVES AND LABEL. ROUTE ALL LV CABLING IN RACEWAY.
- PROVIDE 4"x4"x2 1/8" RECESSED BOX WITH PLASTER RING FOR SENSOR MOUNTING HEIGHT TO CENTER OF BOX. COORDINATE INSTALLATION WITH PLUMBING TRADE. COORDINATE FINAL MOUNTING HEIGHT LOCATION WITH GENERAL CONTRACTOR.
- EXTEND LOW-VOLTAGE CABLING FROM TRANSFORMER (BY P.C.) TO FLUSH VALVE SENSORS. ROUTE CABLING IN CONDUIT OR RACEWAYS.
- PROVIDE 4"x4"x2 1/8" RECESSED BOX WITH PLASTER RING FOR ELECTRIC HAND DRYER CONNECTION. PROVIDE POWER CONNECTION TO HAND DRYERS. COORDINATE FINAL MOUNTING HEIGHT LOCATION WITH GENERAL CONTRACTOR.
- COORDINATE FINAL RECEPTACLE LOCATION WITH PLUMBING TRADE FOR FAUCET SENSOR POWER.
- NEW 200A 54 SPACE MAIN PANEL REPLACING EXISTING 200A 30 SPACE PANEL IN SAME LOCATION.

CONTRACT #9485
MUNIS #14525

DRWN BY: WHM
DATE 01/19/2024
REV:

SHT

EP1



CITY OF MADISON
DEPT OF PUBLIC WORKS
ENGINEERING DIVISION
CITY COUNTY BLDG RM 115
210 MARTIN LUTHER KING JR BLVD
MADISON, WI 53703
PHONE: 608-266-4751

RENNEBOHM PARK SHELTER RESTROOM RENOVATION

Lighting Fixture Schedule (26 50 00 - Lighting)

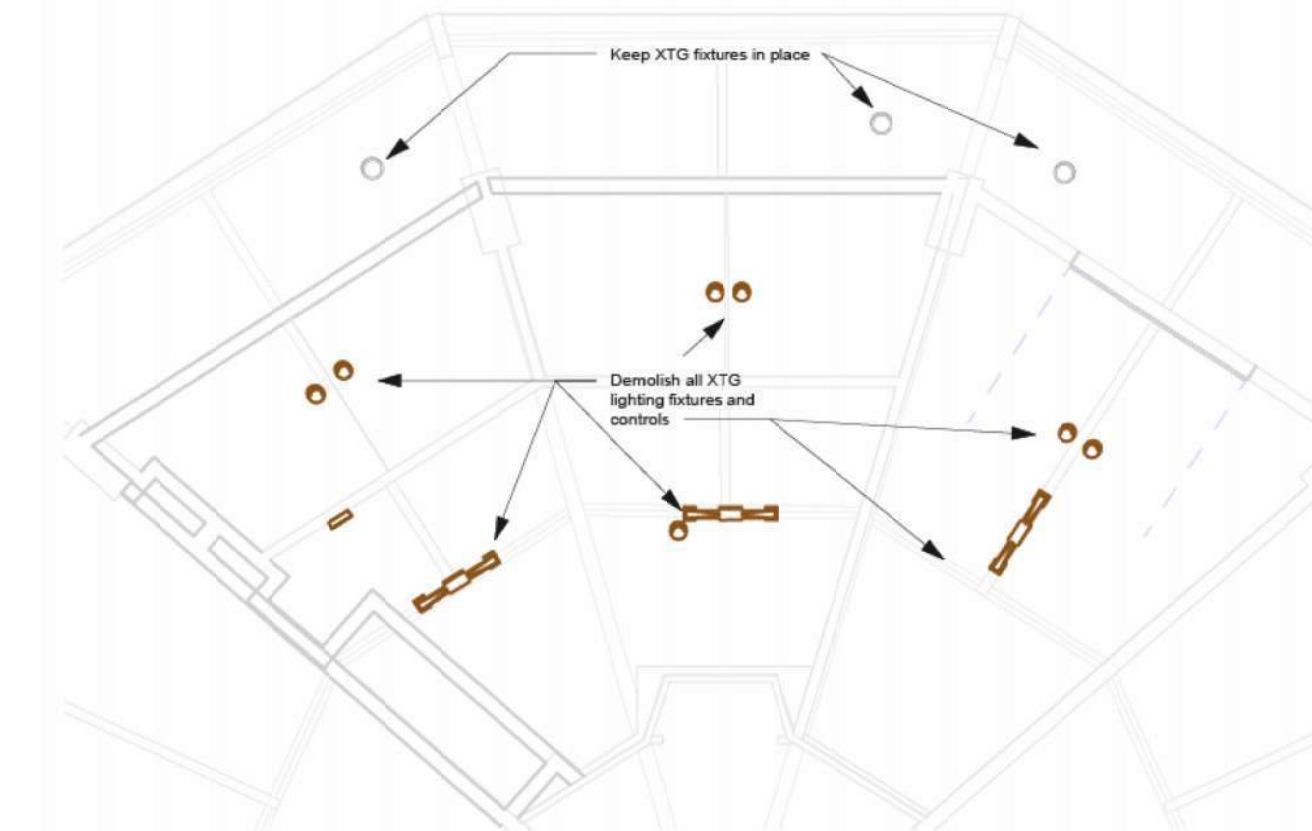
Type Mark	Description	Est. Count	Model	URL	Apparent Power	Luminous Flux	Color Temperature	Efficacy	Lumen Maintenance	Environmental Rating	Type Remark
EC-5400	Exterior Light matching XTG	2	EC-5400-VA-300 e-conalight	www.e-conalight.com	1 VA	5400 lm	5000 K	95 lm/W	LM 80 @ 75k hours		
EX-AC	Exit Sign no Battery	1	Lithonia EX-300 3-0 120/277	www.auclybrands.com	1 VA						Select # of faces as required for location
SVT-4-4-DK-M	Strip Light, Vapor-Tight, Medium Distribution	1	Lithonia FEM-41-4000LM-LPACL-MD-MV-DL-1-02-10-40K-80CRI	www.auclybrands.com	24 VA	2251 lm	4000 K	95 lm/W	L80 @ 100K hours	IP65, NEMA 4X, NSF Splash Zone 2	Use 3" SL stainless latch and wet location fittings in wet environment like washbays and similar
SVT-4-4-DK-W	Strip Light, Vapor-Tight, Wide Distribution	9	Lithonia FEM-41-4000LM-LPACL-WD-MV-DL-1-02-10-40K-80CRI	www.auclybrands.com	24 VA	2251 lm	4000 K	95 lm/W	L80 @ 100K hours	IP65, NEMA 4X, NSF Splash Zone 2	Use 3" SL stainless latch and wet location fittings in wet environment like washbays and similar
SVT-4-6-DK-W	Strip Light, Vapor-Tight, Wide Distribution	6	Lithonia FEM-41-6000LM-LPACL-WD-MV-DL-1-02-10-40K-80CRI	www.auclybrands.com	38 VA	2251 lm	4000 K	60 lm/W	L80 @ 100K hours	IP65, NEMA 4X, NSF Splash Zone 2	Use 3" SL stainless latch and wet location fittings in wet environment like washbays and similar
SVT-8-9-DK-W	Strip Light, Vapor-Tight, Wide Distribution	1	Lithonia FEM-1-95-9000LM-LPACL-WD-MV-DL-1-02-10-40K-80CRI	www.auclybrands.com	93 VA	2251 lm	4000 K	42 lm/W	L80 @ 100K hours	IP65, NEMA 4X, NSF Splash Zone 2	Use 3" SL stainless latch and wet location fittings in wet environment like washbays and similar

Lighting Device Schedule (26 09 23 - Lighting Control Devices)

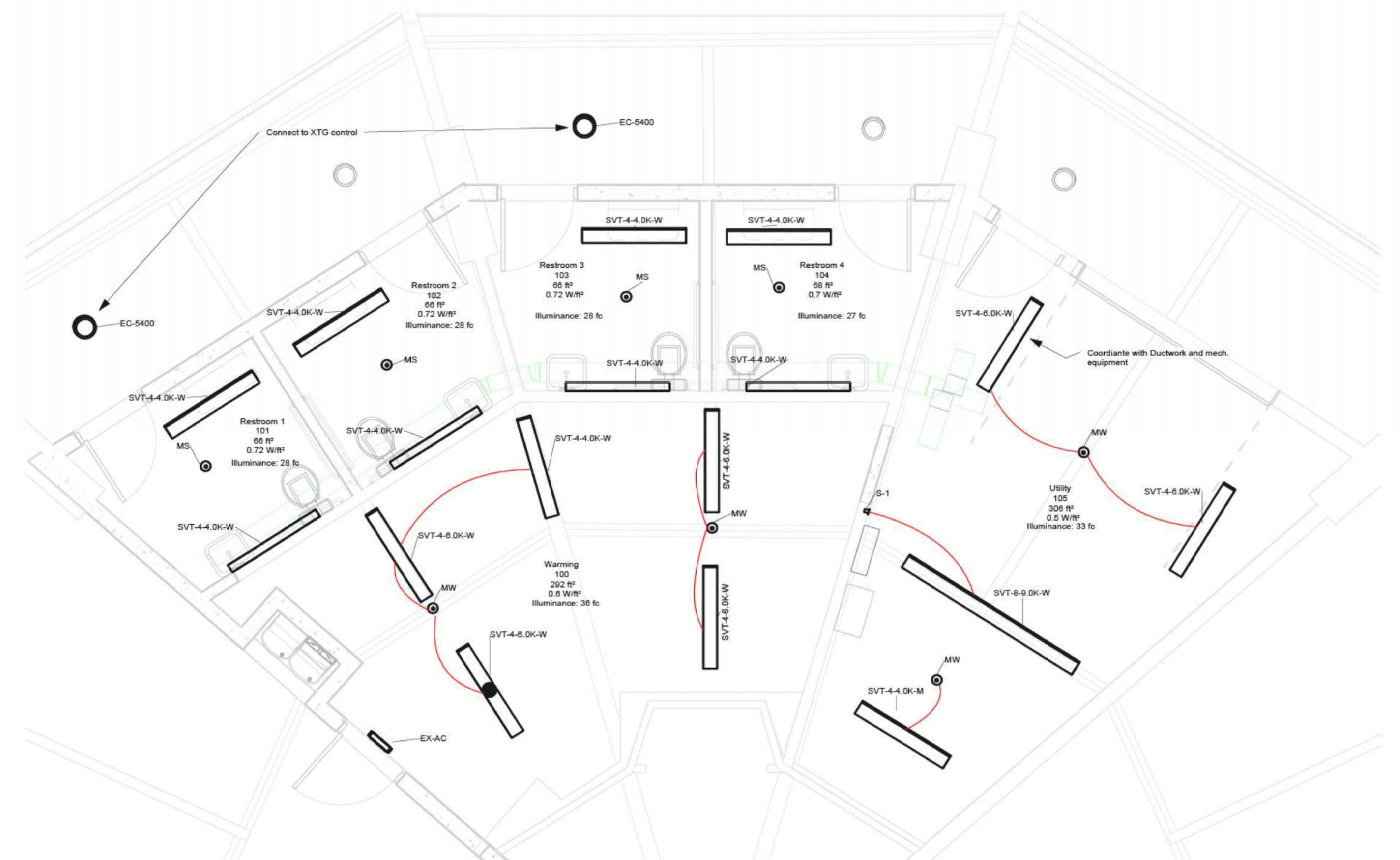
Type Mark	Description	Est. Count	Model	URL	Environmental Rating
MS	Motion Sensor short Range	4	Sensorswitch CMR-9-PDT-ADC-VLP	www.auclybrands.com	
MW	Motion Sensor wide Range	4	Sensorswitch CMR-10-PDT-ADC-VLP	www.auclybrands.com	
S-1	Single Switch	1			

IECC 2015 Lighting Levels

Space Number	Space Name	Area	Space Type	Workplane Height	Min. Required Illumination	Actual Average Illumination	Actual Illumination Goal	Max. Allowed Power Density IECC 2015	Actual Power Density	Allowed Lighting Code	Actual Lighting Level	Space Lighting Load Contributing to Total
100	Waiting	202 sf	Lounger/Breakroom	2'-0"	20 fc	28.2 fc	142%	0.73 W/ft²	0.73 W/ft²	82%	214 VA	175 VA
101	Restroom 1	66 sf	Restroom - otherwise	2'-0"	20 fc	28.4 fc	142%	0.98 W/ft²	0.72 W/ft²	73%	85 VA	48 VA
102	Restroom 2	66 sf	Restroom - otherwise	2'-0"	20 fc	28.4 fc	142%	0.98 W/ft²	0.72 W/ft²	73%	85 VA	48 VA
103	Restroom 3	66 sf	Restroom - otherwise	2'-0"	20 fc	28.4 fc	142%	0.98 W/ft²	0.72 W/ft²	74%	85 VA	48 VA
104	Restroom 4	308 sf	Restroom - otherwise	2'-0"	20 fc	27.5 fc	137%	0.98 W/ft²	0.7 W/ft²	72%	87 VA	48 VA
105	Utility	865 sf	Electrical/Mechanical	2'-0"	30 fc	33 fc	110%	0.98 W/ft²	0.9 W/ft²	91%	231 VA	193 VA
											785 VA	518 VA

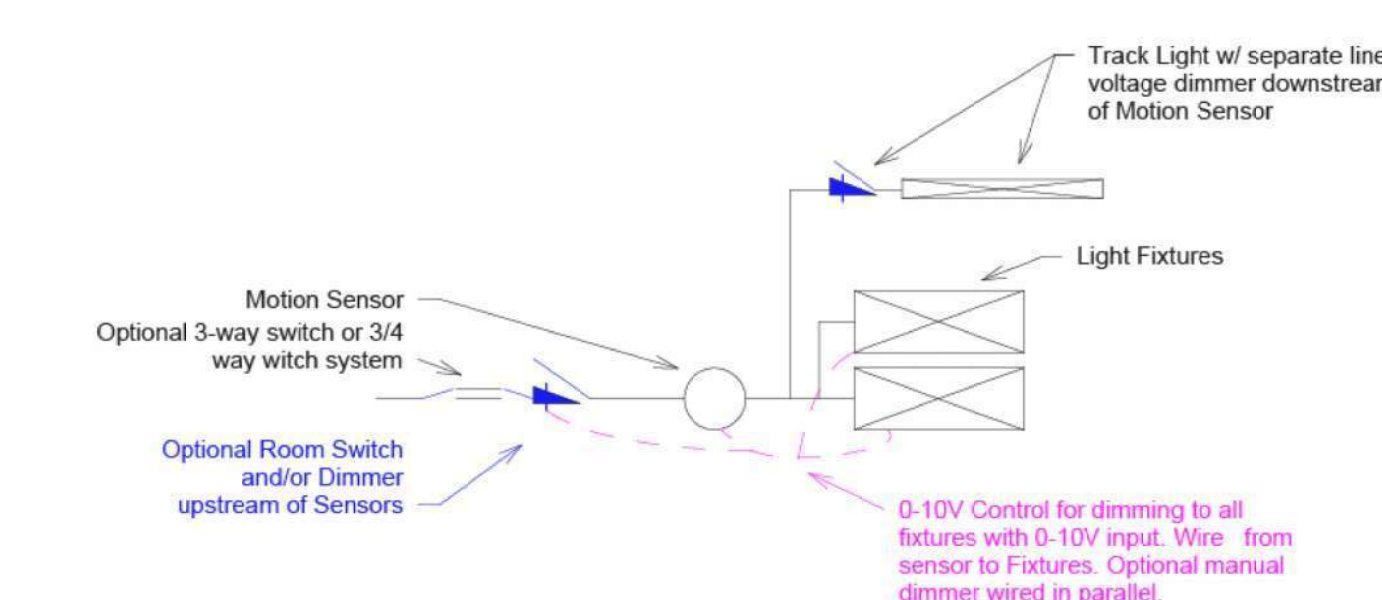


1 ED - Demolition 1/8" = 1'-0"



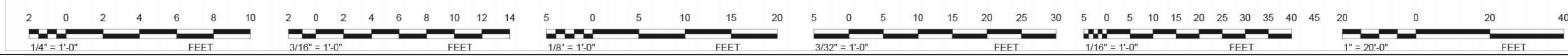
2 EL - New Lighting 1/4" = 1'-0"

- A. Demolition:
- Demolish all existing lighting fixtures and controls. This includes all items not needed for new installation to function. This includes, but is not limited to, emergency, exit, track, architectural and spot lights, switches, sensors, inverters, batteries and control panels. Demolition drawings may not show all existing items.
 - Remove all unused raceways, boxes, conduit and wiring.
 - Patch wall, ceiling and other surfaces damaged by removal of XTG elements. Use adjacent surface matching cover for electrical boxes that remain.
- B. Installation:
- Install new raceways, boxes, conduit and wiring as required for new lighting fixtures and controls.
 - Locations shown are approximate only. Install as required to coordinate with tile patterns, architectural features, sprinklers, mechanical equipment and other obstacles. Center Fixtures and provide even grid wherever possible. Review deviations from plan with designer prior installation.
 - Install fixtures at indicated height. Provide required suspension. A noted height typically applies to all fixtures in a space, even if only a single fixture has an indicated height shown. If no height is given, ceiling surface mounting or mounting at bottom of fixture can be assumed. Installation in between trusses or beams also is an option. Consult with engineer before determining mounting height.
 - Surface wiring raceway in finished areas is only allowed where the structure does not allow installation inside ceiling or wall. Raceway shall be neatly routed and hidden in corners to the greatest extent possible. In finished spaces use surface wire molding instead of conduit. Wiremold shall be factory painted to match wall surface. Where matching factory paint is not available, use field-painting.
 - Support all lighting fixtures adequately and provide all extra support.
 - All conduit except at fixture entrance shall be 3/4" or larger. Turns between access boxes should not be more than 270°.
 - Grid Ceilings:
 - Use flexible metal conduit from a J-box in enough length to allow lifting and 2' lateral move of fixture
 - Move flexible head sprinklers where required for even layout pattern.
 - Suspended Strip Light Fixtures: use rigid type hangers every 4' or less. Mount multiple fixtures in a row on a uni-strut structure.
 - Cord & Plug Fixtures: Mount on hook for easy replacement and install safety wire. Provide plug within reach of fixture.
 - In rooms with obstruction (e.g. equipment, pipes, and ducts in mechanical and electrical rooms) mount the fixtures below obstruction and as high as practical to allow good light distribution without limiting access to obstructing equipment. Consult with designer before installation.
- C. Retrofit Installation:
- Maintain all fire ratings while penetrating plenums, walls or ceilings.
 - Install all wiring inside ceiling and wall. If wiring cannot be fished through, provide surface mounted conduit or wire molding in finished spaces.
 - Modify Grid Ceiling to accommodate new fixtures. Fill in openings with new tiles of existing type. Contractor shall provide tiles and grid elements. Review Special site conditions for information on type of tile. Where sprinkler, diffuser or other permanent obstruction prevents even layout, relocate after consultation with engineer.
 - Relocate track lighting (e.g. equipment, pipes, and ducts in mechanical and electrical rooms) relocate Fire Alarm devices up to 3'. Consult with designer before re-location.
 - Prevent dirt and dust polluting occupied areas and take special care while working in occupied areas and cover equipment and furniture as needed.
 - Canopy: Provide retrofit version of fixtures and/or all retrofit accessories for installing over existing fixture locations. Ensure existing opening is fully covered. Build cover matching surrounding surface.
- D. Control:
- Locate sensors to enable good detection within controlled zone and in between partitions. In enclosed rooms minimize detection of motion in adjacent rooms.
 - Lighting zones are indicated by wire annotations and/or switchleg (SL) numbering. Wire annotations are schematic only to indicate control relationships and don't necessarily equal actual required physical wire runs. Lighting zones can be shown by proximity of sensor and light fixture without wire or switchleg annotation for example, garage lighting where each fixture has one sensor). In a room with only one sensor (and/or dimmer/switch), it is assumed all fixtures are controlled by that sensor (and dimmer/switch) even if no wires or switchlegs are indicated. Unless noted otherwise assume the standard lighting control zone setup.
 - Spaces with electrical panels shall have at least one light be controlled by a manual switch only (no automatic control) per code requirement.
 - Fixture-mounted sensors shall be installed to allow 360° detection and bottom of sensor lens shall be at or below bottom of fixture.
 - Size analog 0-10V wiring to limit voltage drop. At 100% position the light fixture shall be 100% bright.
- E. Emergency Lighting:
- Light fixtures with a black dot indicate emergency lights.
 - Control fixtures from central inverter or generator. Provide all wiring to emergency power source.
 - Re-wire fixture internals if fixture has integrated sensor or other lighting control.
 - Install UL 924 relay in accessible location near controlled fixture. Verify location with engineer.
 - Drywall Ceiling: if no easily accessible location is available, install relay above grid ceiling in adjacent area
 - Outdoor fixtures: Install relay inside above a grid ceiling or other accessible location
 - Retrofit of XTG fixtures: Re-arrange wiring and existing control to allow emergency fixture operation like for new fixtures. Note that schedules that show number of relays required only account for relays of NEW fixtures.



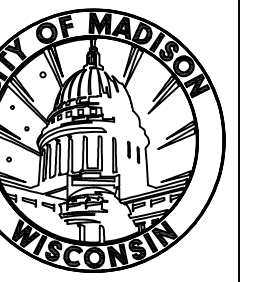
- A. Lighting zones with lighting-devices and light-fixtures are indicated by wire lines and/or switch leg (SL) numbers.
- B. Where devices allow, dimming shall be accomplished by 0-10V wiring of all devices.
- C. Where shown on plans, a zone may have 3-way and 4-way switches. Enable 3-way function on dimmer switch and wire appropriately to enable control from all switch locations. Fixtures and devices in the same above zone are denoted by the same switchleg (SL) number.
- D. Motion sensor with local switch will be de-energized when switch is off (sensor downstream of switch).
 - Light will be on upon activation of local switch regardless of actual motion detection (sensor is ON upon power-up)
 - Sensors will not click when local switch is off (nuisance avoidance in quiet rooms)
 - If the order of switching is different at a specific location, plans will indicate so. Examples include, but are not limited to sensors controlling line-voltage dimmers or other track lighting control.
- E. Line-voltage dimmers (i.e. track lighting) shall be downstream of local motion sensor.
- F. Notes on plans or switchleg naming will indicate exceptions. For example:
 - Disable Switchleg: A dimmer will only dim the lighting level to the allowable minimum. The line voltage switch in the dimmer will not be used. This prevents lights turning off entirely. Hallways are an example.
 - One light fixture shall be controlled by switch only. Switchleg parameters indicate that some lights are controlled by switch and some lights by switch only. This prevents the latter lights from turning off upon loss of motion detection. Electrical or mechanical rooms are examples.
- G. Sensor Programming Instructions:
- The below is based on Sensorswitch Instructions at the time of design. Amend if different sensors are used or if manufacturer changes procedure. Confirm any deviation with engineer. Sensorswitch support#: 1-800-535-2465
 - If sensors are equipped with VLC programming option, a smartphone app shall be used. Note that sensors need to be initialized and set with a PIN within 45 minutes of powering up. Program is sent to sensor via flashlight. Lights will blink to acknowledge successful programming.
 - Verify settings with engineer prior programming. Certain settings may be different in certain zones.
 - Sensors shall be programmed depending on availability of daylight. Save presets to avoid deviations.
 - No daylight available:
 - Enable "Time Delay" - Set to 15 minutes
 - Disable Trim
 - Enable "Dim to Off Delay" - set to 5 minutes
 - Disable Photocell
 - Daylight available (inc. spaces with overhead doors, skylights, windows within 20' of sensor)
 - Enable "Photocell" and set to "On/Off and Auto Dimming"
 - Enable "Auto Set Point"
 - After programming, all functions shall be tested to verify desired function. Adjust as required for intended function. Discuss problems with engineer.

3 EL Lighting Control Zone - Not to Scale



CONTRACT #9485
MUNIS #14525
DRWN BY: KS
DATE 01/19/2023
REV: XX/XX/XX

SHT
EL1



CITY OF MADISON
DEPT. OF PUBLIC WORKS
ENGINEERING DIVISION
CITY COUNTY BLDG RM 115
210 MARTIN LUTHER KING JR BLVD
MADISON, WI 53703
PHONE: 608-266-4751

RENNEBOHM PARK SHELTER RESTROOM RENOVATION
115 EAU CLAIRE AVE.
MADISON, WI 53705

CONTRACT #9485
MUNIS #14525
DRWN BY: JCE
DATE 01/19/2024
REV:

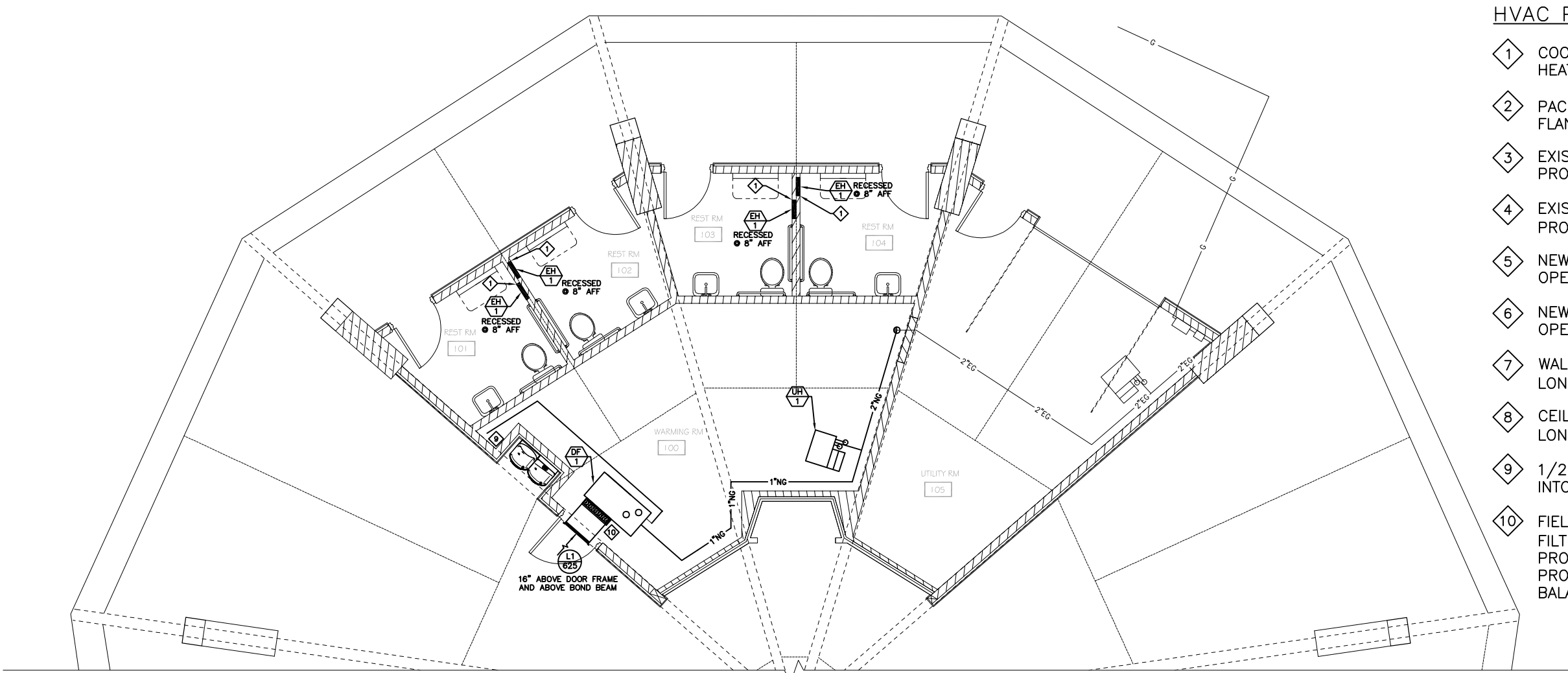
SHT H1

HVAC PLAN NOTES:

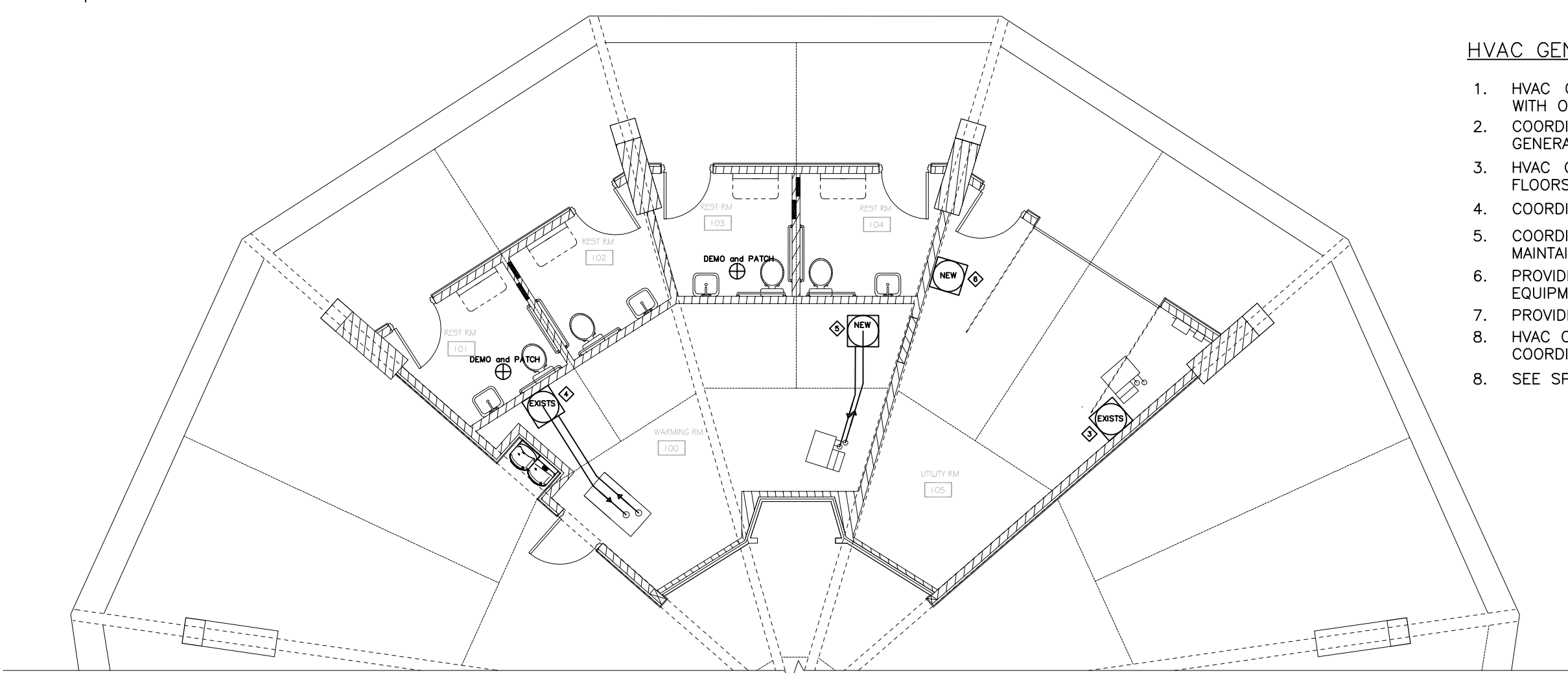
- COORDINATE RECESS OPENINGS IN BLOCK WALLS FOR ELECTRIC WALL HEATERS WITH GENERAL CONTRACTOR & MASONRY CONTRACTOR.
- PACK AND CAULK ROUND DUCTWORK SLEEVES AND PROVIDE 1" WIDE RING FLANGE FLUSH TO WALL, EACH SIDE.
- EXISTING CONCENTRIC ROOF VENT. FIELD MODIFY AFTER DEMO TO PROPERLY VENT EXISTING UNIT HEATER.
- EXISTING CONCENTRIC ROOF VENT. FIELD MODIFY AFTER DEMO TO PROPERLY VENT NEW DUCT FURNACE (DF-1).
- NEW CONCENTRIC ROOF VENT BY MECHANICAL CONTRACTOR. COORDINATE OPENING WITH GENERAL CONTRACTOR.
- NEW EXHAUST OUTLET BY MECHANICAL CONTRACTOR. COORDINATE OPENING WITH GENERAL CONTRACTOR.
- WALL MOUNTED IR OCCUPANCY SENSOR. WIRED IN SERIES WITH EF-1. LONG OFF DELAY (30 MIN).
- CEILING MOUNTED IR OCCUPANCY SENSOR. WIRED IN SERIES WITH EF-1. LONG OFF DELAY (30 MIN).
- 1/2 INCH COPPER CONDENSATE LINE TO HUB DRAIN WITH AIR GAP. TEE INTO DRAIN LINE FOR WATER FOUNTAINS.
- FIELD BUILT FILTER RACK HOUSING AND FILTER RACK FOR 4"x16"x20" MERV8 FILTER. BASIS OF DESIGN FILTER RACK IS AAF MODEL # 321-000-500. PROVIDE ADEQUATE CLEARANCE FOR FILTER CHANGES WITHOUT INTERFERENCE. PROVIDE 2 SETS OF CLEAN FILTERS - ONE INSTALLED JUST PRIOR TO BALANCING. ONE FOR OWNER ATTIC STOCK.

HVAC GENERAL NOTES:

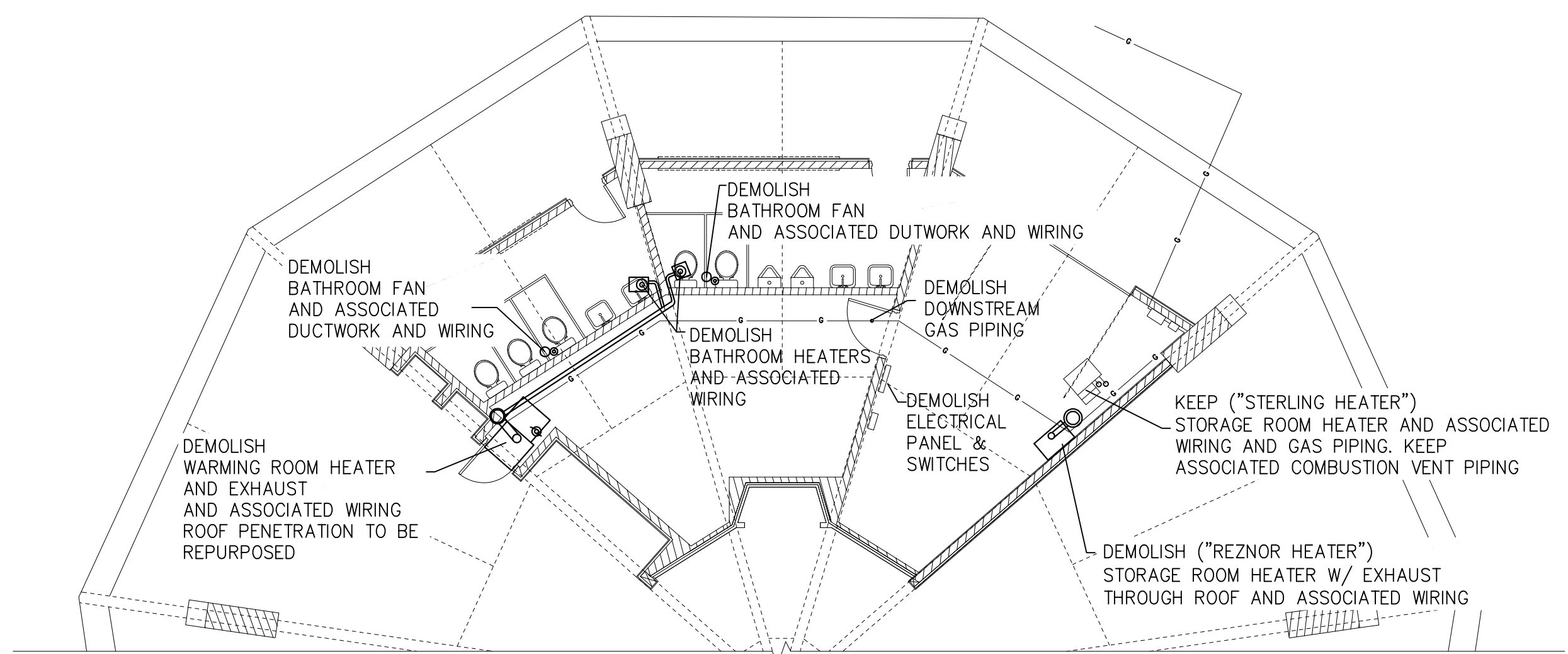
- HVAC CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF HVAC WORK WITH OTHER TRADES.
- COORDINATE PROVISIONS FOR OPENINGS IN NEW CONSTRUCTION WITH THE GENERAL CONTRACTOR FOR APPROVAL PRIOR TO STARTING WORK.
- HVAC CONTRACTOR IS RESPONSIBLE FOR CUTTING AND PATCHING WALLS, FLOORS & CEILINGS FOR NEW HVAC WORK, IF REQUIRED.
- COORDINATE FINAL REGISTER AND GRILLE LOCATIONS WITH OTHER TRADES.
- COORDINATE PIPING AND DUCTWORK ROUTING WITH OTHER TRADES TO MAINTAIN SCHEDULED CEILING HEIGHTS.
- PROVIDE PROPER SERVICE CLEARANCES AND ACCESS SPACE FOR ALL NEW EQUIPMENT.
- PROVIDE ACCESS PANELS TO SERVICE EQUIPMENT, WHERE REQUIRED.
- HVAC CONTRACTOR PROVIDES DISCONNECTS AS NOTED ON PLAN. COORDINATE LINE VOLTAGE WIRING BY ELECTRICAL CONTRACTOR.
- SEE SPECIFICATION 23 05 00 FOR FURTHER DETAILS.



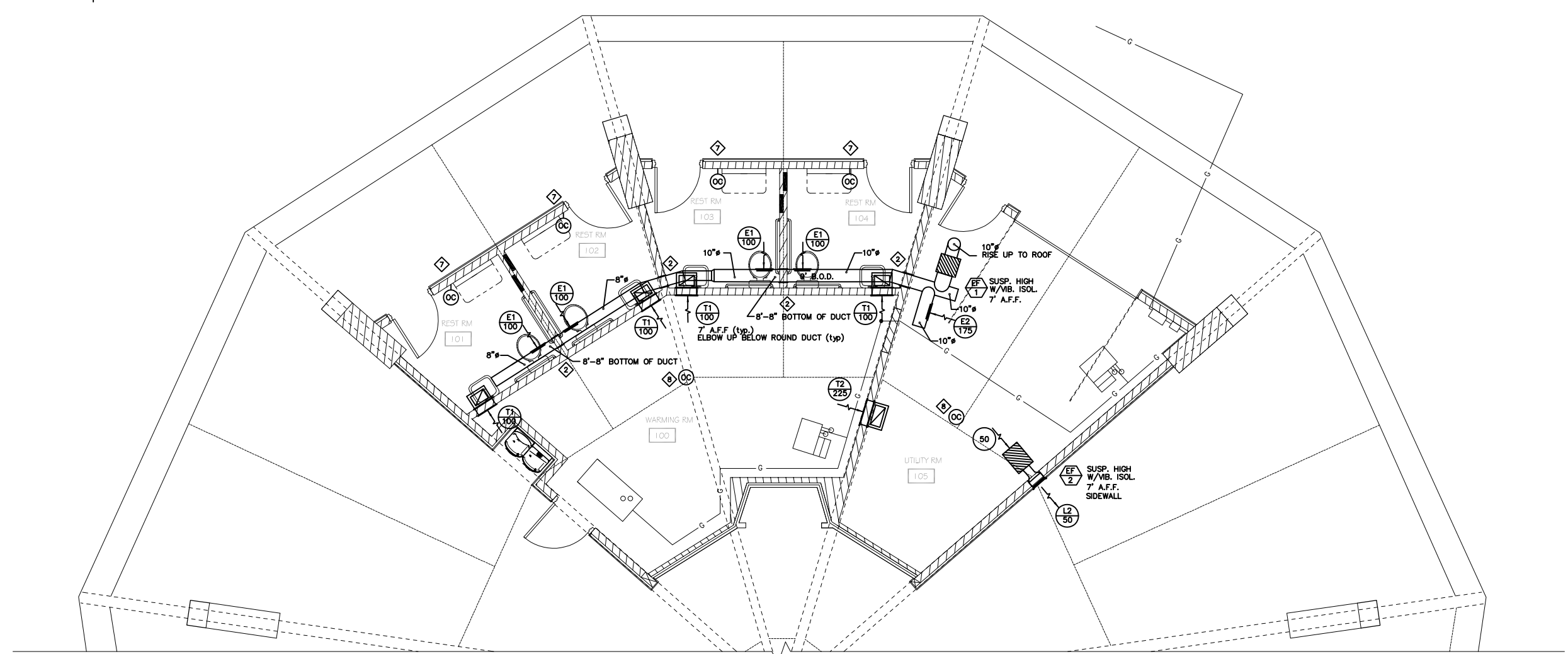
NORTH
NEW HEATING AND VENTILATION SYSTEM PLAN
SCALE: 1/8" = 1'-0"
— EXISTING GAS (EG)
— NEW GAS (NG)



NORTH
NEW EXHAUST SYSTEM ROOF PLAN
SCALE: 1/8" = 1'-0"



NORTH
EXISTING FACILITIES HEATING PLAN - DEMOLITION
SCALE: 1/8" = 1'-0"



NORTH
NEW EXHAUST SYSTEM PLAN
SCALE: 1/8" = 1'-0"

EXHAUST FAN SCHEDULE		
TAG	EF-1	EF-2
MANUFACTURER	GREENHECK	GREENHECK
MODEL NO.	SQ-95-VG	SP-A50-90-VG
AREA SERVED	TOILETS/GARAGE	GARAGE
CFM	575	50
ESP *WG	1/2"	1/2"
RPM	1637	808
MOUNTING	SPRING VIB. HANGERS	SPRING VIB. HANGERS
DRIVE	DIRECT	DIRECT
SONES (INLET/RADIATED)	8.8/8.4	2.0/2.0
DIMENSIONS (LxWxH)	15"x16"x15"	13"x11"x9"
ELECTRICAL:		
MOTOR HP (BHP)	0.12	0.05
FAN F.L.A.	3.8	0.29
VOLTAGE/PHASE	115/1	115/1
CONTROL	SEE 1/H1	24/7
REMARKS:	INLINE EF ①②③④⑤⑥	INLINE EF ③ ⑥

NOTE: ALL EF LINE VOLTAGE CONTROLS WIRED BY E.C.
 ① INTERLOCK EF-1 WITH DF-1
 ② ECM MOTOR WITH UNIT-MOUNTED POTENTIOMETER FOR BALANCING.
 ③ SPRING/NEOPRENE VIBRATION ISOLATION HANGERS
 ④ MOTORIZED(115V) OPPOSED BLADE, LOW LEAK DAMPER
 ⑤ DIRECT-COUPLED EXTERNAL ACTUATOR (BELIMO)
 ⑥ NEMA 1 DISCONNECT SWITCH, UNIT MOUNTED

DIFFUSERS, REGISTERS AND GRILLES SCHEDULE								
TAG	MFG	MODEL	SIZE		MOUNTING	SERVICE	CFM	REMARKS
			FACE (WxH)	DEPTH (L)				
E1	PRICE	SDGER	10"x6"	-	SIDEWALL	EXHAUST	100	①
E2	PRICE	SDGER	12"x8"	-	SIDEWALL	EXHAUST	175	①
T1	PRICE	ATG1	16"x8"	-	SIDEWALL	TRANSFER	100	①②
T2	PRICE	ATG1	20"x12"	-	SIDEWALL	TRANSFER	225	①②

REMARKS:
 ① ALUMINUM, CLEAR ANODIZED. INCLUDE AIR SCOOP (AS) OPTION FOR BALANCING
 ② PROVIDE TRANSFER DUCTWORK, ELBOW UP, 1/2 INCH LINER AND WIRE MESH OVER OPENING

LOUVER SCHEDULE									
TAG	MFG	MODEL	SIZE		FREE AREA	SERVICE	CFM	FPM	REMARKS
			FACE (WxH)	DEPTH (L)	Sq. Ft.				
L1	RUSKIN	ELF6375XH	18"x24"	6"	0.29	OUTSIDE AIR	625	504	①②
L2	RUSKIN	ELF6375XH	12"x12"	6"	1.24	EXHAUST	50	172	①②

REMARKS:
 ① ALUMINUM, CLEAR ANODIZED
 ② BIRD SCREEN

ELECTRIC HEATER SCHEDULE								
TAG	MFG	MODEL NO.	TYPE	SIZE	WATTS	CAP. BTU/HR	ELECTRICAL	REMARKS
				HxWxD			VOLTS/PHASE AMPS	
EH-1	Q-MARK	AWH-4407F	RECESSED WALL HTR	18.25H"x14.38W"x3D"	3000	10,236	240/1	12.5 ①②③

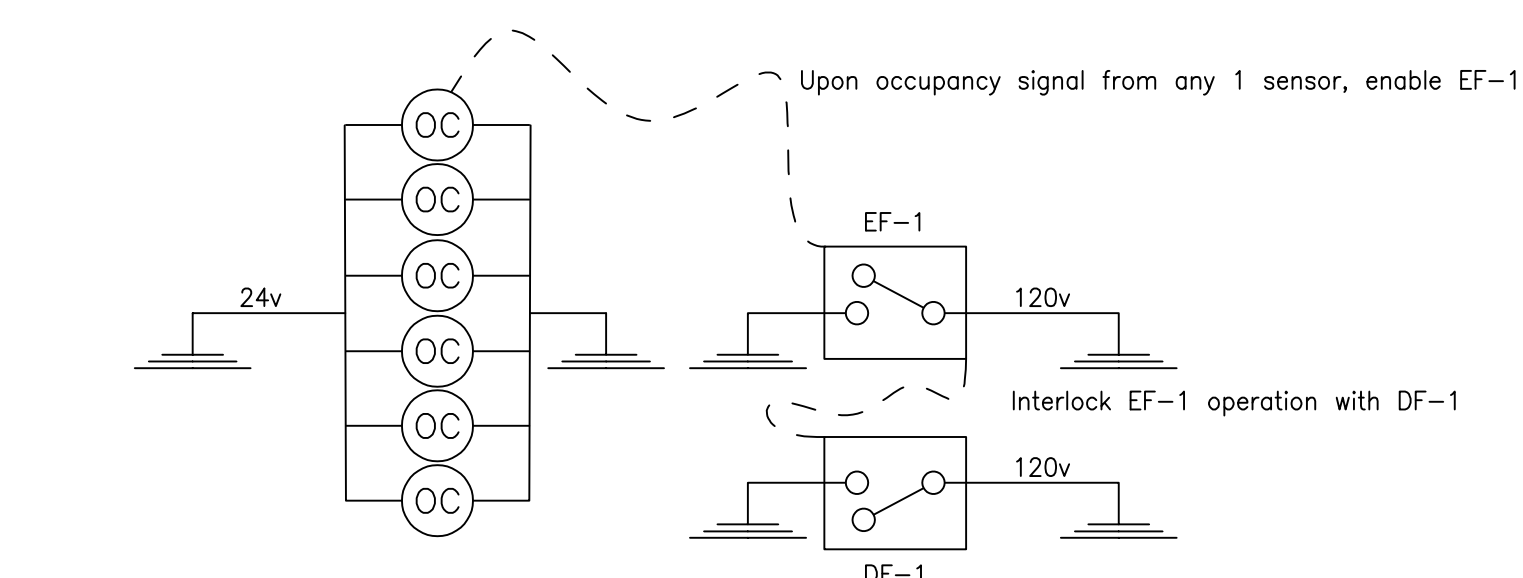
REMARKS:
 ① INTEGRAL TAMPER PROOF THERMOSTAT.
 ② BUILT-IN DISCONNECT SWITCH.
 ③ LFKSFCNW: 14 GA SECURITY FRONT COVER.

DUCT FURNACE SCHEDULE											
TAG	MFG	MODEL NUMBER	TYPE	SIZE	INPUT	OUTPUT	ELECTRICAL		AIRFLOW		REMARKS
				HxWxLENGTH	BTU/HR	BTU/HR	VOLTS/PHASE	AMPS	CFM	FPM	
DF-1	RENEWAIRE	GH-INSI050NSSHTSD11F-SE--	GAS SEPERATED	21.96H"x15.75W"x47.22L"	50,000	40,000	115/1	2.4	625	268	①②③④⑤⑥⑦

REMARKS:
 ① STAINLESS STEEL HEAT EXCHANGER
 ② PROVIDE OPTIONAL DISCONNECT SWITCH.
 ③ PROVIDE OPTIONAL 5:1 CONTINUOUS ELECTRONIC MODULATION AND DUCT THERMOSTAT FOR MODULATION CONTROL
 ④ PROVIDE CUSTOM FABRICATED VERTICAL CONCENTRIC VENT TO ACCOMMODATE 5" VENTS. RENEWAIRE DOESN'T HAVE THIS FOR THIS UNIT AT THIS TIME
 ⑤ 1/2 INCH GAS SUPPLY CONNECTION. UNIT INCLUDES STANDARD COMBINATION GAS VALVE WITH SHUTOFF
 ⑥ 3/8" CONDENSATE DRAIN CONNECTION. PROVIDE 1/2" COPPER CONDENSATE DRAIN PIPING AS NOTED ON PLANS - GENERALLY OVER TO NEW DRINKING FOUNTAIN DRAIN
 ⑦ PROVIDE FIELD BUILT FILTER RACK AND FILTER RACK HOUSING TO ACCOMMODATE 4"x16"x20" MERV8 FILTER. BOD FOR RACK IS AAF 321-000-500.

UNIT HEATER SCHEDULE													
TAG	MFG	MODEL NUMBER	TYPE	SIZE	INPUT	OUTPUT	ELECTRICAL		MOTOR	AIRFLOW		REMARKS	
				HxWxLENGTH	BTU/HR	BTU/HR	VOLTS/PHASE	AMPS	HP	RPM	TYPE	CFM FPM	
UH-1	MODINE	HDS-60-SS-01-11-F	GAS SEPERATED	18.0H"x26.8W"x25.0L"	60,000	49,200	115/1	3.3	1/12	1625	PSC	990 653	①②③④⑤

REMARKS:
 ① STAINLESS STEEL HEAT EXCHANGER
 ② BUILT-IN ON/OFF SWITCH.
 ③ FINGER PROOF FAN GUARD
 ④ PROVIDE OPTIONAL 4-INCH VERTICAL CONCENTRIC VENT
 ⑤ 1/2 INCH GAS SUPPLY CONNECTION



① EQUIPMENT CONTROL SCHEMATIC
N.T.S.