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ENGINEERING, Inc.

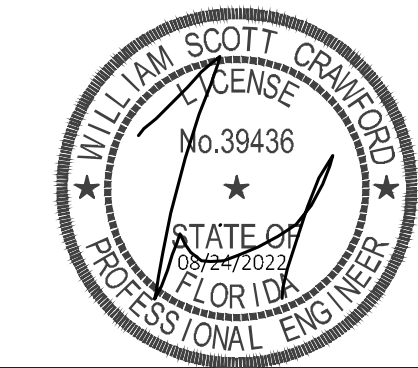
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6889 PROFESSIONAL PKWY. E.  
SARASOTA, FLORIDA 34240  
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ELECTRICAL  
PLUMBING  
& FIRE

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ARCHITECTURE, AIA**  
FLORIDA LICENSE NO. AA0002701  
  
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EMAIL: inbararchitecture@gmail.com



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PROPOSED NEW HOME FOR:

NOKOMIS MEDICAL CENTER

498 S. TAMiami TrL.  
NOKOMIS, FL.

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Sheet Title

FOUNDATION  
PLUMBING PLAN

Drawing Name: NOKOMIS OFFICE

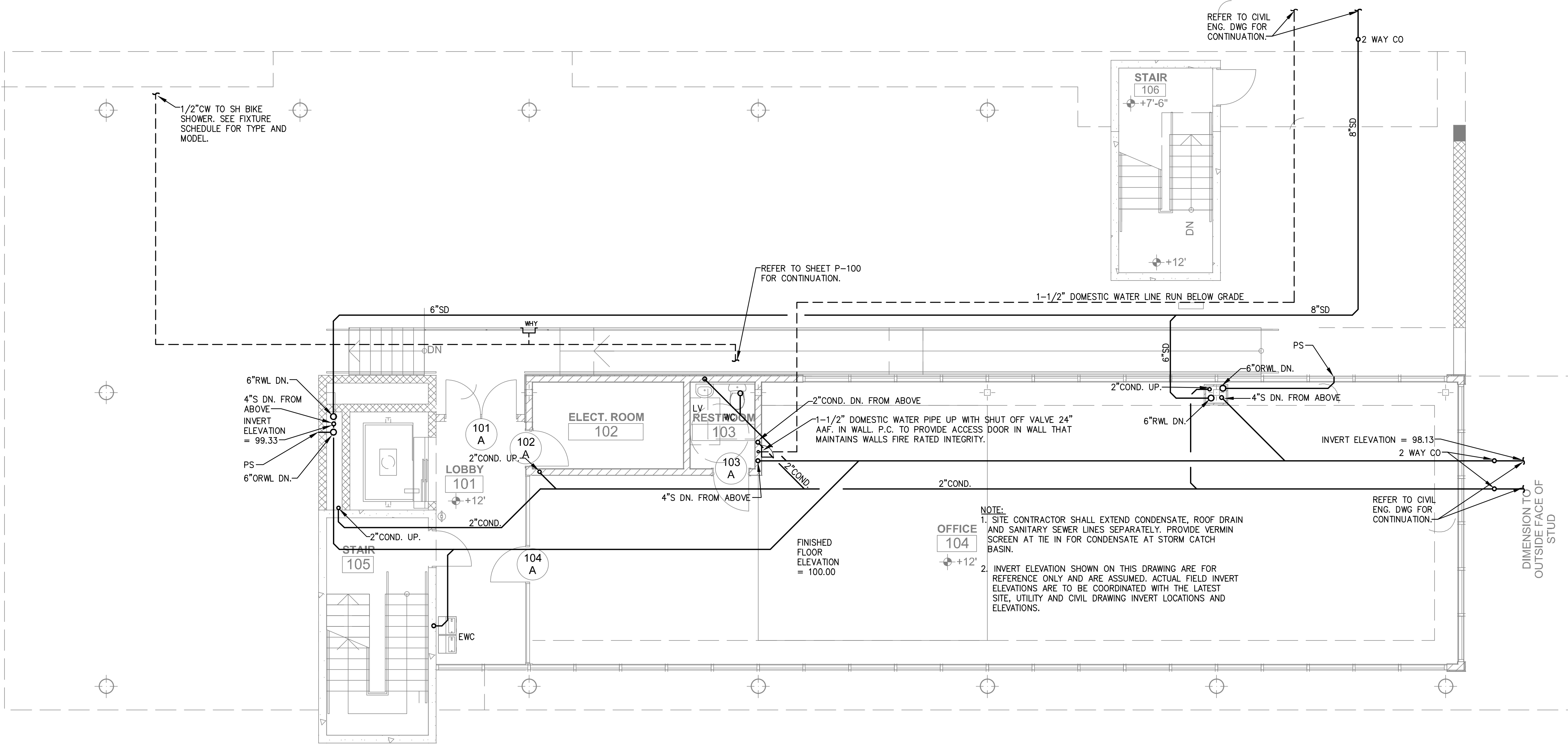
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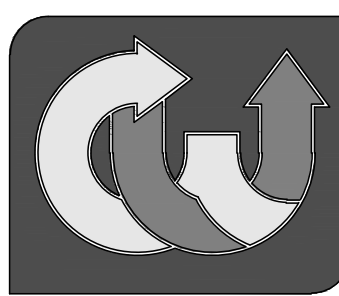
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P-0



FOUNDATION PLUMBING PLAN  
SCALE: 3/16" = 1'-0"

TO THE BEST OF THE ENGINEER'S KNOWLEDGE, SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE BUILDING CODES AND THE APPLICABLE MINIMUM FIRE SAFETY STANDARDS AS DETERMINED IN ACCORDANCE WITH CHAPTERS 553 AND 633, FLORIDA STATUTES

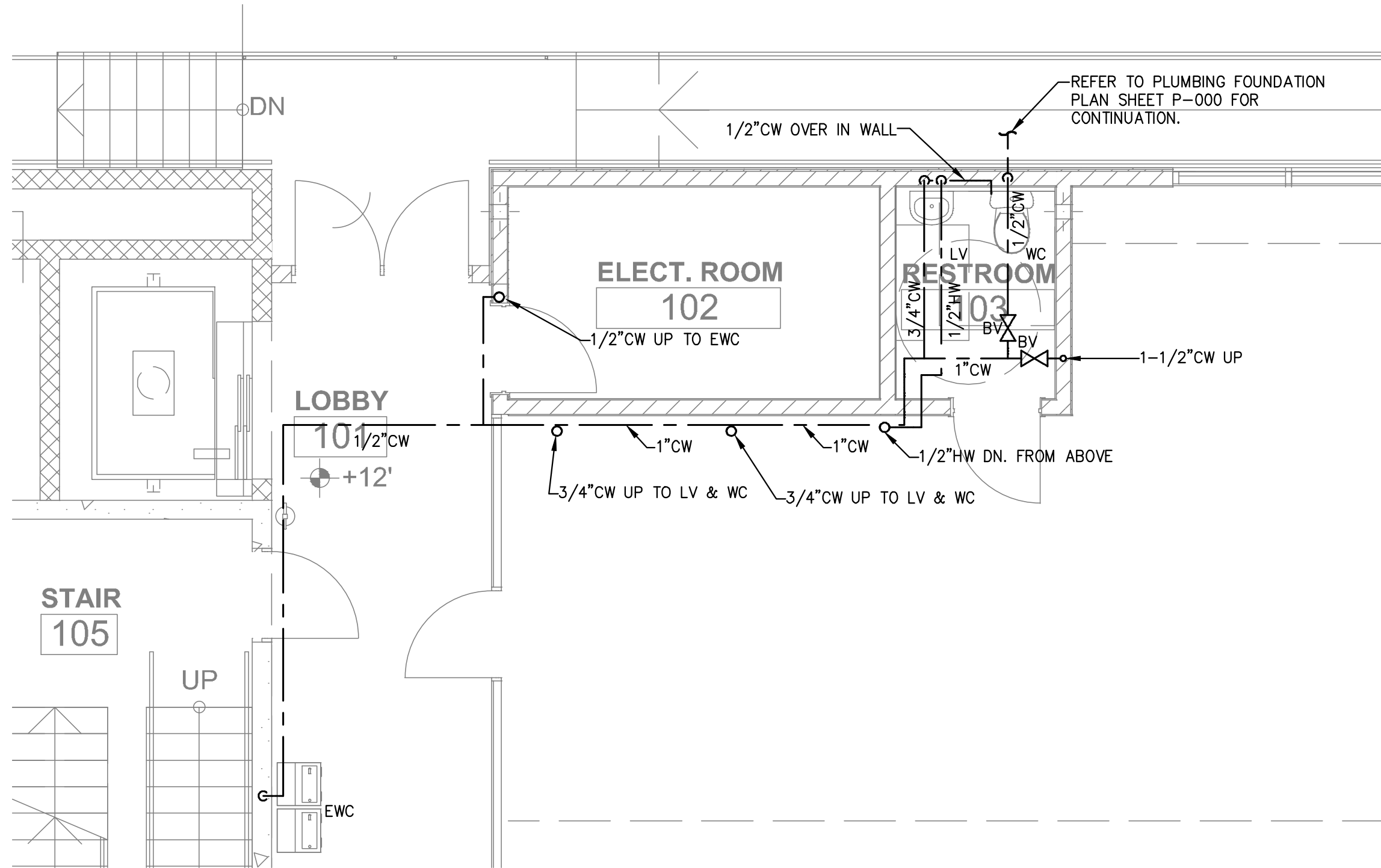


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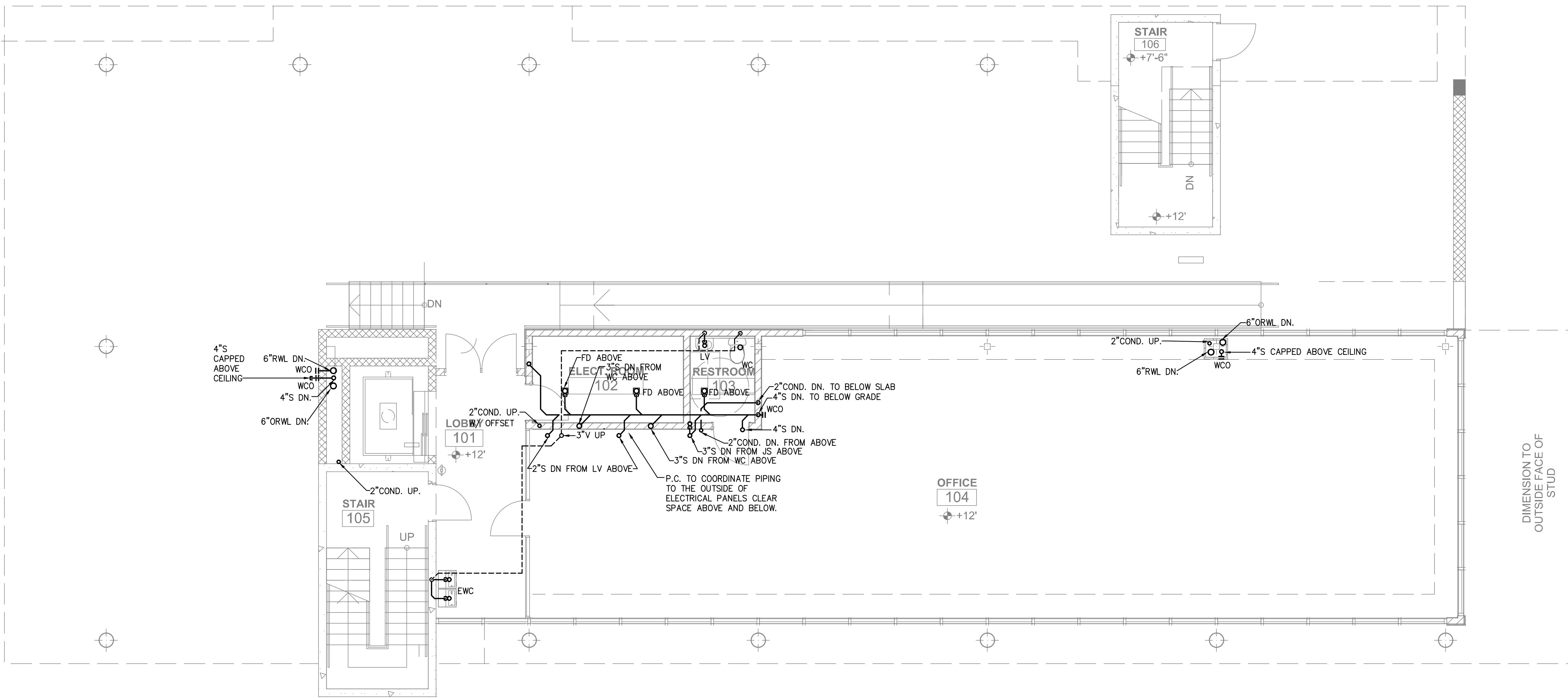
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FIRST FLOOR DOMESTIC WATER PIPING PLAN  
SCALE: 1/4" = 1'-0"



FIRST FLOOR SANITARY WASTE VENT AND STORM PIPING PLAN  
SCALE: 3/16" = 1'-0"

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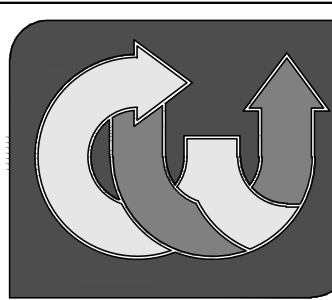
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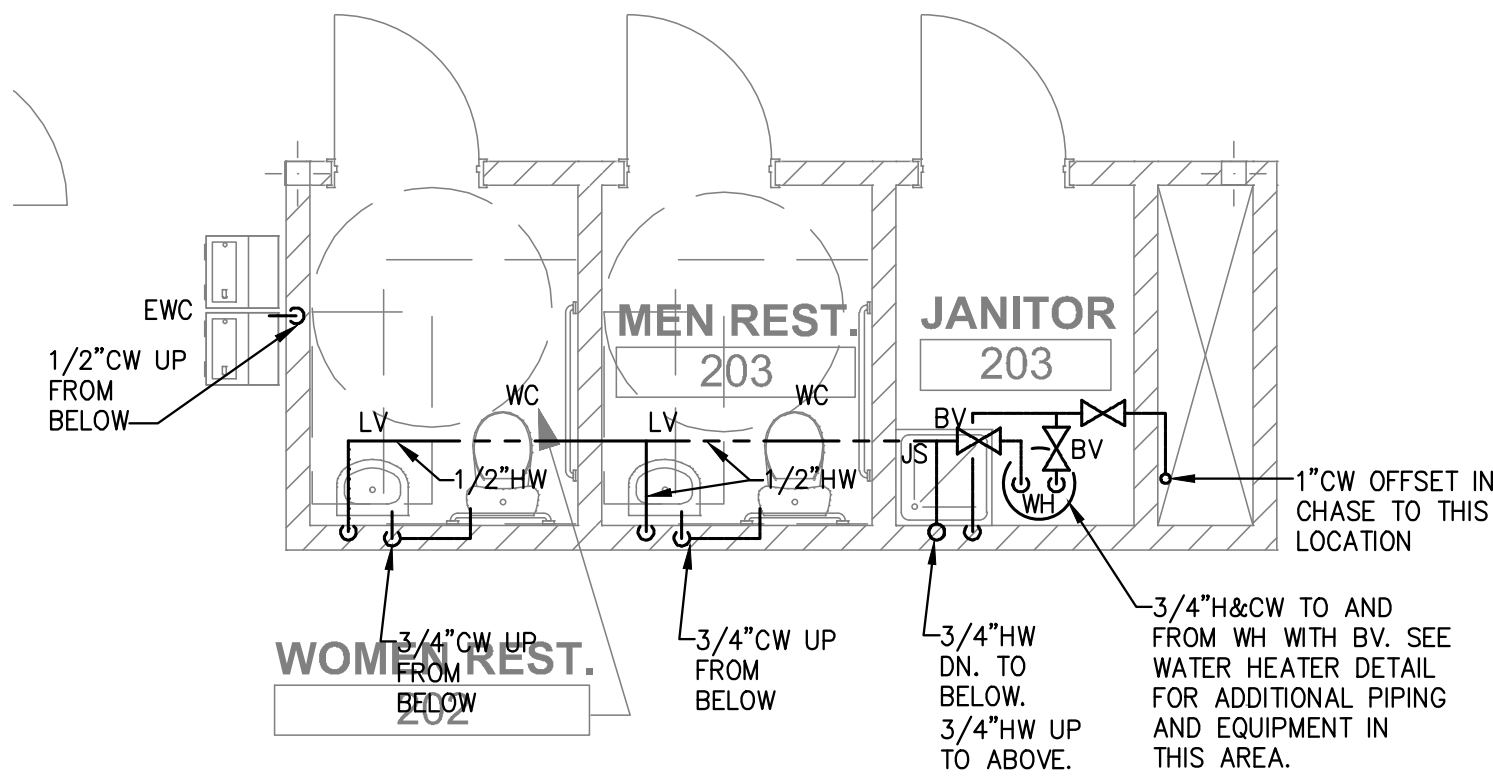


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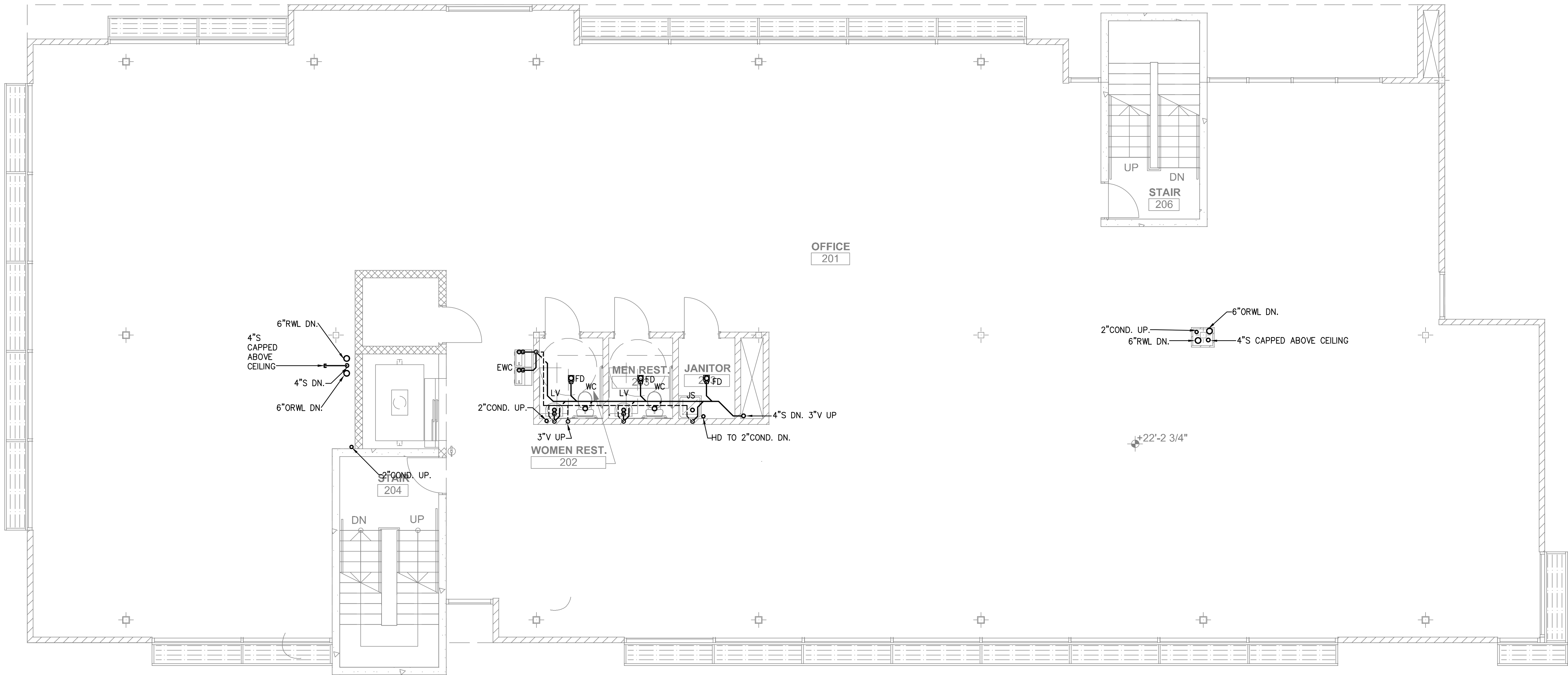
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SECOND FLOOR DOMESTIC WATER PIPING PLAN  
SCALE: 1/4" = 1'-0"



SECOND FLOOR SANITARY WASTE VENT AND STORM PIPING PLAN  
SCALE: 3/16" = 1'-0"

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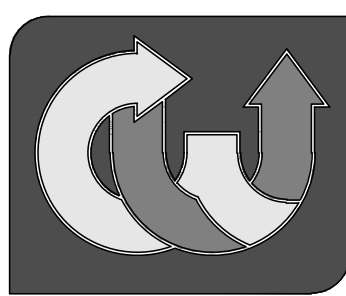
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Roof Plumbing Plan

Drawing Name: NOKOMIS OFFICE

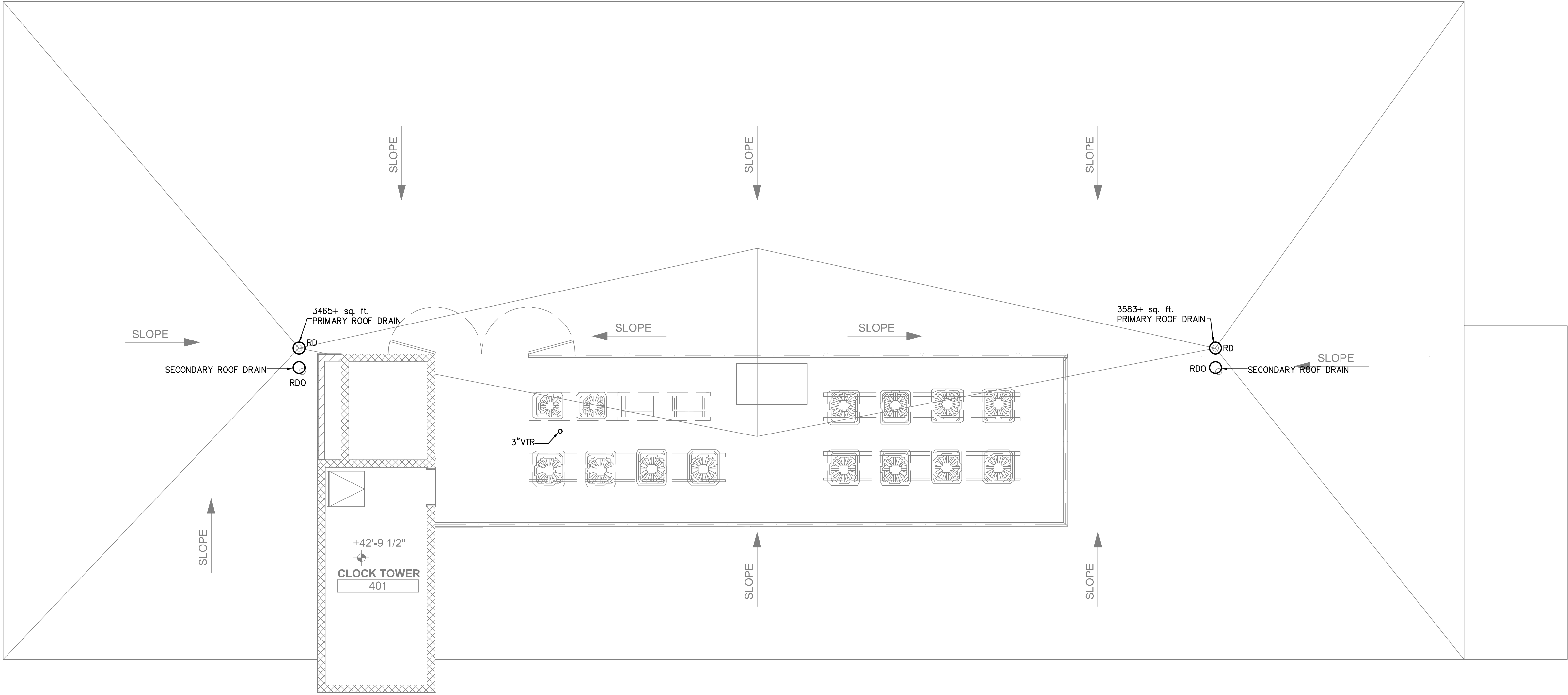
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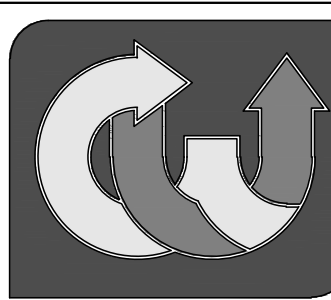
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P-4



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

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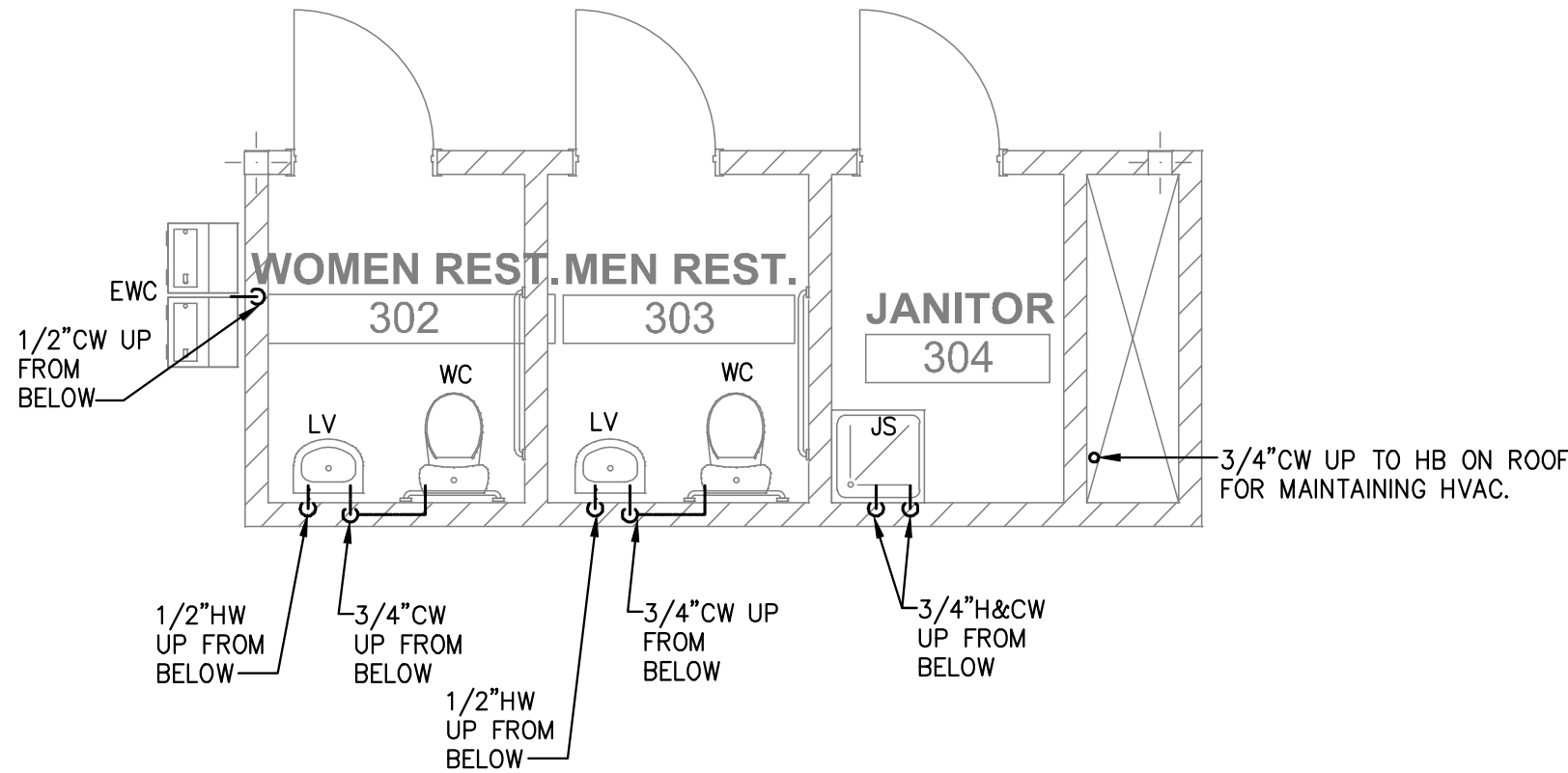
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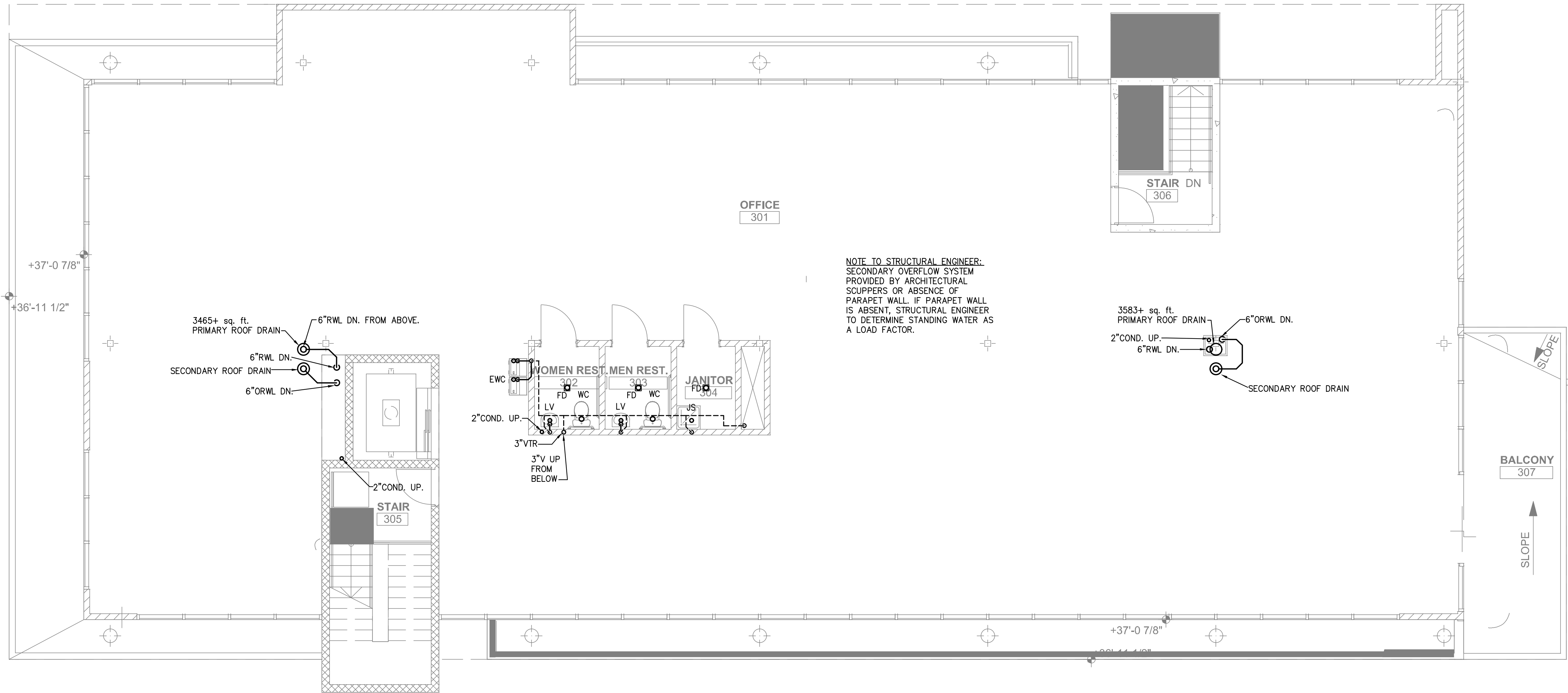
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THIRD FLOOR DOMESTIC WATER PIPING PLAN  
SCALE: 1/4" = 1'-0"

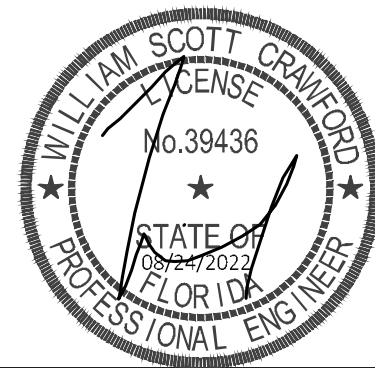


THIRD FLOOR SANITARY WASTE VENT AND STORM PIPING PLAN  
SCALE: 3/16" = 1'-0"

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THIRD FLOOR  
PLUMBING PLAN

Drawing Name: NOKOMIS OFFICE

Design: CWE

Issues: 08/24/2022

Job No.: 2203

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TO THE BEST OF THE ENGINEER'S KNOWLEDGE, SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE BUILDING CODES AND THE APPLICABLE MINIMUM FIRE SAFETY STANDARDS AS DETERMINED IN ACCORDANCE WITH CHAPTERS 553 AND 633, FLORIDA STATUTES



PLUMBING FIXTURE SCHEDULE													
LTR	DESCRIPTION	MANUFACTURER	CATALOG NO.	PIPE SIZES				ELEC				OTHER	
				CW	HW	TRAP	SNP	VT	VOLT	PH	AMPS		HP
RD	PRIMARY ROOF DRAIN	ZURN LC	RD-2120	-	-	-	-	-	-	-	-	-	ADD ZURN W4 FOR ROOF DRAIN OVERFLOW
WCO	WALL CLEAN OUT	ZURN LC	CO-2530-SS	-	-	-	SEE PLANS	-	-	-	-	-	MOUNT AT 24" ABOVE FINISHED FLOOR WITH ZURN "LC" CO-2411
CO	FLOOR CLEAN OUT	ZURN LC	CO-2500	-	-	-	SEE PLANS	-	-	-	-	-	MOUNT FLUSH WITH FLOOR.
WC	WATER CLOSET, 0.8 GAL PER FLUSH ADA	ECOTECH	ECOCLOSET	1/2"	-	-	3"	SEE PLAN	-	-	-	-	PROVIDE W/ BEMIS 1955C PLASTIC SEAT LESS COVER AND LEVER ON WIDE SIDE OF TANK
LV	WALL HUNG LAVATORY	AMERICAN STANDARD	0321.026	1/2"	-	1 1/2"	2"	1-1/2"	-	-	-	-	PROVIDE WITH SYMMONS S-20-2, TRUEBRO LAV GUARD 2 AND MOUNT WITH ZURN Z1231 CONCEALED ARM SYSTEMS*
EWC	ELECTRIC WATER COOLER	HALEY TAYLOR	HTVBBLR-Q	1/2"	-	1 1/2"	2"	1-1/2"	120	1	FLA4.0	-	
WH	WATER HEATER	RHEEM/RUUD	MR40245	3/4"	3/4"	-	-	-	208	1	4.5KW	-	SEE DETAIL FOR ADDITIONAL EQUIPMENT AND PIPING
JS	JANITORS SINK	EL MUSTEE	M32	1/2"	1/2"	2"	3"	2"	-	-	-	-	PROVIDE WITH ALL POSSIBLE OPTIONS INCLUDING FAUCET*
HD	HUB DRAIN	ZURN	Z325	-	-	-	-	-	-	-	-	-	SEE DETAIL
FD	WATERLESS TRAP FLOOR DRAIN	ECHECH	ECODRAIN	-	-	-	3"	-	-	-	-	-	- **
SH	LOWFLOW SHOWER HEAD	ECHECH	ECOSHOWER	1/2"	-	-	-	-	-	-	-	-	PROVIDE WITH 3305 CENTRAL BRASS PULL VALVE
WHY	WALL MOUNTED HYDRANT	WOODFORD	B24	1/2"	-	-	-	-	-	-	-	-	-
FD	FLOOR DRAIN	ZURN	415S	-	-	-	-	-	-	-	-	-	-

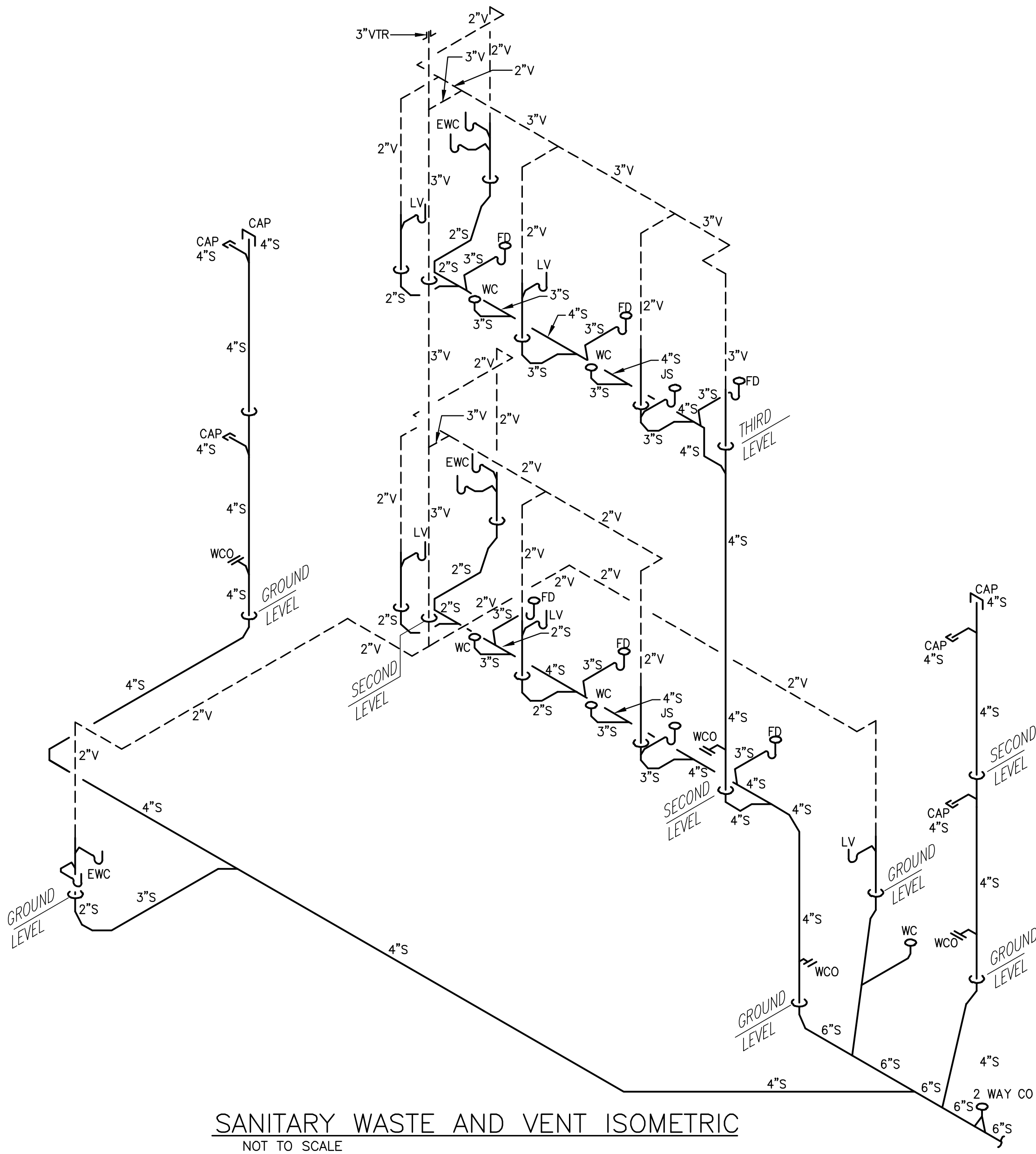
MOUNT ALL HANDICAP FIXTURES ACCORDING TO ADA CODE REQUIREMENTS.

MINIMUM UNDERGROUND WASTE PIPING SIZE IS 2"

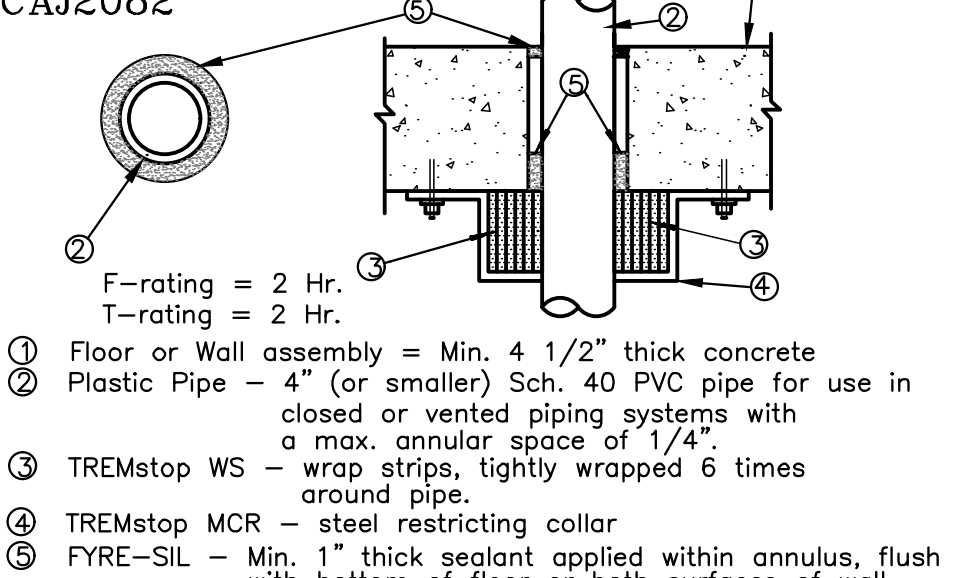
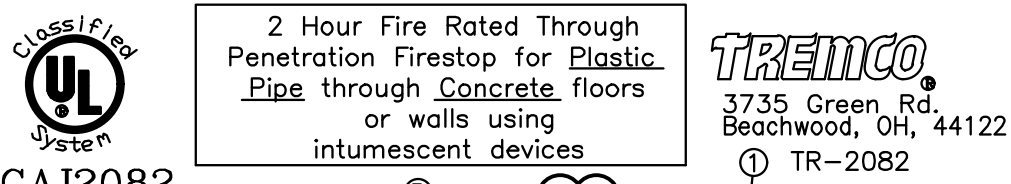
\*PROVIDE WITH ECOTECH LOW FLOW SINK AERATORS 0.33 GPM

\*\*ADD ALTERNATE.

PLUMBING FIXTURE UNIT SCHEDULE										
QUANTITY	DESCRIPTION	WATER DEMAND						SANITARY		
		FIXTURE UNIT (FU) (EACH)			FIXTURE UNITS (TOTAL)			TOTAL GPM	FIXTURE UNIT (FU)	
		COLD	HOT	COMB.	COLD	HOT	COMB.		FU (EA.)	TOTAL FU
3	DRINKING FOUNTAIN	0.25		0.25	0.75		0.75		0.5	1.50
5	LAVATORY (PUBLIC)	1.5	1.5	2.0	7.50	7.50	10.00		2.0	10.00
2	SINK SERVICE	2.25	2.25	3.0	4.50	4.50	6.00		2.0	4.00
5	WATER CLOSET, PUBLIC FLUSH TANK	5.0		5.0	25.00		25.00		4.0	20.00
		TOTAL			37.75	13.50	41.75	27.70	35.5	
NOTE: (1) TOTAL OF 25.0 GPM DEMAND BASED ON SYSTEM PREDOMINANTLY FOR FLUSH TANK. (2) SYSTEM WILL REQUIRE 1-1/2" WATER MAIN. (3) SYSTEM WILL REQUIRE 1-1/2" WATER METER.										

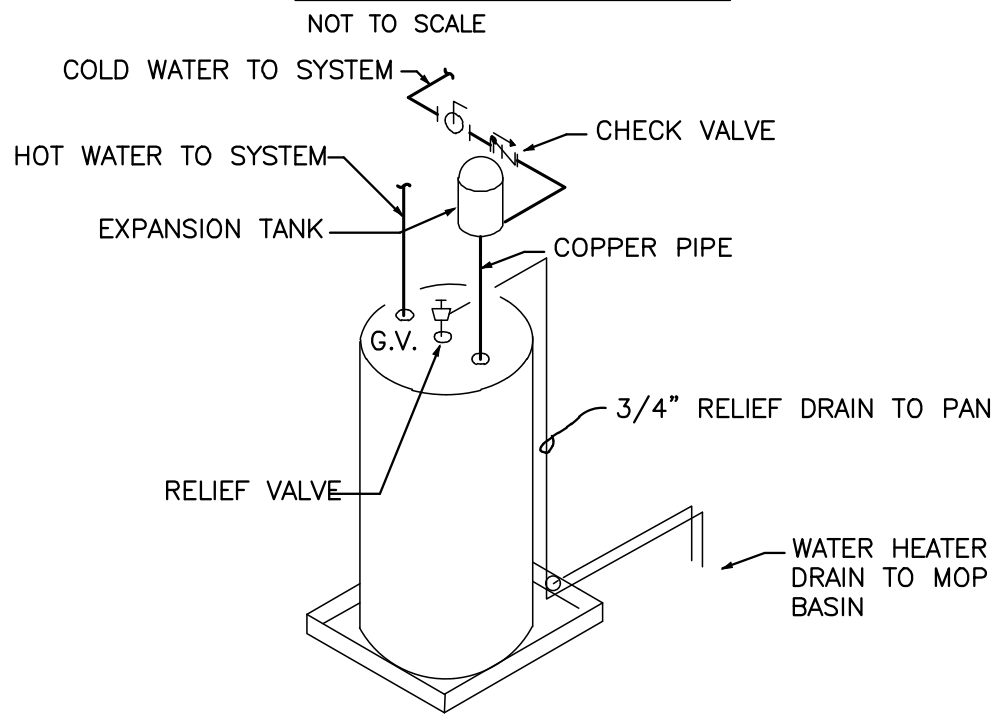


SANITARY WASTE AND VENT ISOMETRIC  
NOT TO SCALE

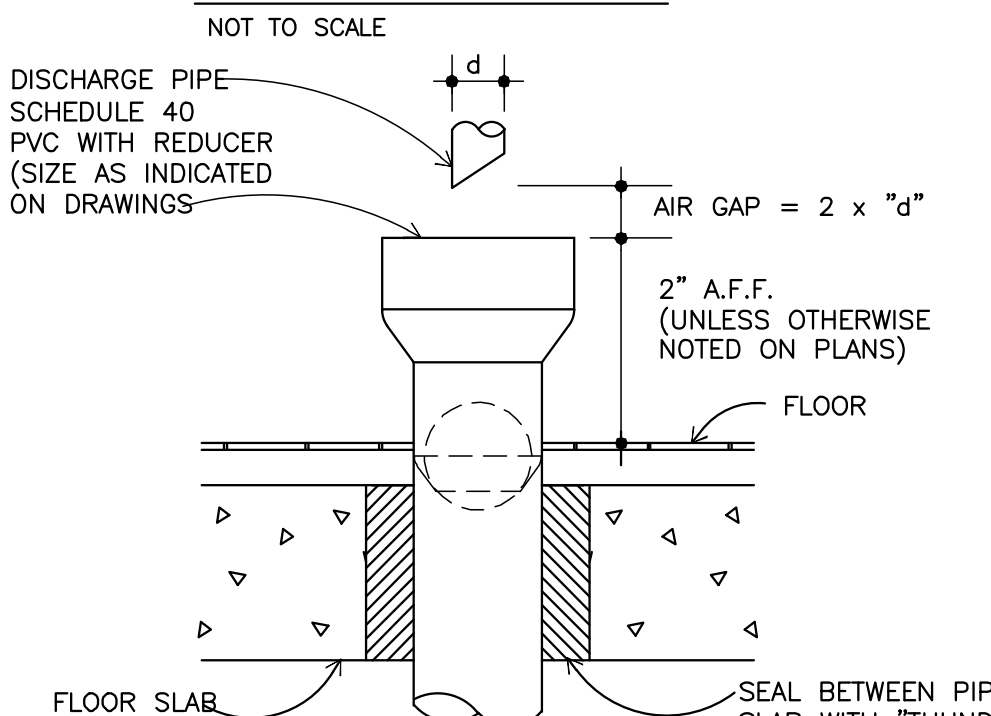


NOTE: In walls, install TREMstop WS/MCR device to both sides of wall.

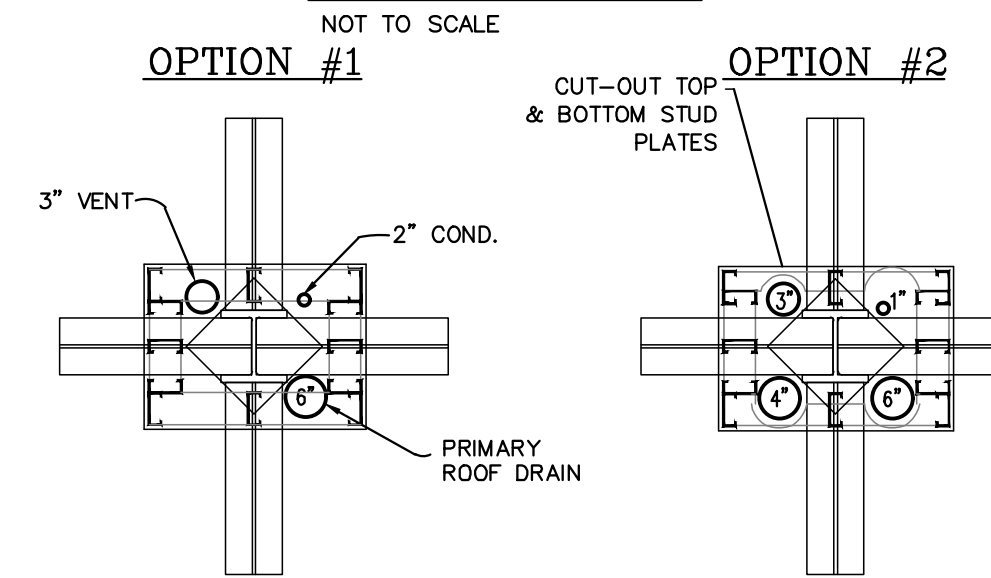
#### PENETRATION DETAIL



#### WATER HEATER DETAIL



#### HUB DRAIN DETAIL



NOTE: HOLD STUDS AS TIGHT TO PIPING AS POSSIBLE.

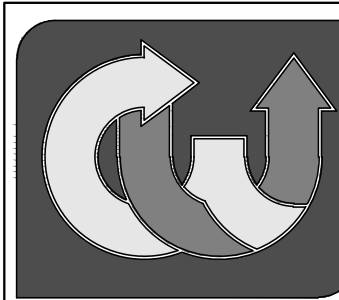
NOTE: HOLD PIPES AS TIGHT AS POSSIBLE TO COLUMN.

#### WET COLUMN DETAIL

NOT TO SCALE

PLUMBING LEGEND	
SYMBOL	DESCRIPTION
	GAS VALVE
	PRESSURE REDUCING VALVE
	CHECK VALVE
	BALANCE VALVE
	BALL VALVE

NOTE: NOT ALL MAY APPLY TO THIS PROJECT.



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MECHANICAL ELECTRICAL PLUMBING & FIRE

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#### PIPING NOTES AND SPECIFICATIONS:

##### GENERAL

PIPING SHALL NOT BE PERMANENTLY CLOSED-UP, FURRED-IN, OR COVERED OVER PRIOR TO BEING TESTED AND INSPECTED. ENGINEER REQUIRES 5 DAY NOTICE PRIOR TO INSPECTION. FAILURE TO COMPLY MAY RESULT IN THE UNCOVERING OF PIPING AT THE PLUMBER'S EXPENSE.

PIPING SHALL BE ARRANGED TO MAINTAIN HEADROOM, KEEP PASSAGEWAYS AND ACCESS OPENINGS CLEAR AND WHERE NECESSARY, BE OFFSET TO MAINTAIN THE REQUIRED CLEARANCE AND COINCIDE WITH THE STRUCTURAL FEATURES OF THE BUILDING.

PIPING SHALL BE INSTALLED AT A HEIGHT SO AS NOT TO OBSTRUCT ANY PORTION OF A WINDOW, LIGHT FIXTURE, DOORWAY, PIPE TUNNEL, OR PASSAGEWAY. VERIFY CLEARANCES WITH ARCHITECTURAL SECTIONS PRIOR TO INSTALLATION.

INSTALL PIPING STRAIGHT, PLUMB, AND AS DIRECT AS POSSIBLE; FORM RIGHT ANGLES OR PARALLEL LINES WITH BUILDING WALLS.

LOCATE GROUPS OF PIPES PARALLEL TO EACH OTHER KEEPING PIPES CLOSE TO WALLS, PARTITIONS, CEILING; OFFSETTING ONLY WHERE NECESSARY TO FOLLOW WALLS AS DIRECTED.

INSTALL HORIZONTAL PIPING AS HIGH AS POSSIBLE WITHOUT SAGS OR HUMPS.

EXPOSED AND OR EXTERIOR PVC PIPING TO BE PAINTED WITH UV PROTECTIVE COATING, COLOR TO BE CHOSEN BY ARCHITECT.

WHERE FURRED SPACES ARE INDICATED, KEEP PIPES AS CLOSE TO STRUCTURAL MEMBERS AS POSSIBLE SO AS TO REQUIRE MINIMUM FURRINGS.

ESCUTCHEONS ARE REQUIRED WHERE PIPES PASS THROUGH A FINISHED SURFACE. ESCUTCHEON SHALL FIT FLUSH WITH WALL OR FLOOR AND SHALL FIT SNUGLY AROUND THE PIPE.

ALL PIPE FLOOR PENETRATIONS TO BE PROTECTED WITH THE APPROPRIATE "PROSET OR TREMCO" FIRESTOPPING PENETRATORS. WALLS PENETRATIONS SHALL BE PROTECTED WITH THE APPROPRIATE "SPEC-SEAL 100" FIRESTOPPING METHOD.

ANY SURFACES REQUIRED TO BE PAINTED SHALL BE CLEANED OF RUST, GREASE, AND OIL.

VENT THROUGH ROOF SHALL TERMINATE A MINIMUM OF 15' FROM ANY AIR INTAKES AND 12" ABOVE PARAPET WALL.

CONTRACTOR SHALL ROUGH-IN ALL WASTES AND SUPPLIES TO SPECIAL EQUIPMENT ACCORDING TO MANUFACTURER'S SHOP DRAWINGS AND MAKE FINAL CONNECTIONS. ALL SUPPLIES SHALL BE VALVED. INSTALL VACUUM BREAKERS WHERE REQUIRED BY CODE.

PROVIDE BACKFLOW PREVENTERS FOR DOMESTIC WATER SUPPLIES AS REQUIRED BY LOCAL CODES AND OR WATER PURVEYORS.

ALL WATER PIPING INSTALLED IN EXTERIOR WALLS SHALL BE PLACED ON THE INTERIOR SIDE OF THE WALL, SO THAT WALL INSULATION CAN BE PLACED ON THE EXTERIOR SIDE OF THE PIPING.

DO NOT PENETRATE WALL FOOTINGS WITH PIPING, COORDINATE WITH GENERAL CONTRACTOR TO DROP FOOTINGS AS REQUIRED TO CLEAR PLUMBING SERVICES WHERE ABSOLUTELY NECESSARY. ALL PIPING PENETRATING A BEARING WALL OR FOOTING MUST BE SLEEVED AND LOCATION APPROVED BY THE STRUCTURAL ENGINEER.

EXPOSED HOT WATER AND DRAIN PIPES UNDER HANDICAP LAVATORIES SHALL BE PROTECTED WITH "LAV-GAURD" BY TRUEBRO, WHITE UNLESS OWNER SPECIFIES.

UNIONS ARE TO BE INSTALLED ON EACH SIDE OF EACH PIECE OF EQUIPMENT AND WHEREVER NEEDED TO DISMANTLE PIPING. ALL EQUIPMENT MUST BE ABLE TO BE REMOVED, AND SERVICED WITHOUT THE CUTTING OF PIPING. UNIONS MUST BE ACCESSIBLE AND ARE NOT TO BE INSTALLED IN CONCEALED WALLS, PARTITIONS, OR CEILINGS.

##### WASTE STORM AND DRAINAGE

ALL SANITARY AND STORM PIPING ABOVE FINISHED GROUND FLOOR TO BE NO-HUB CAST IRON. PIPING LOCATED UNDERGROUND INCLUDING BUILDING MAIN TO BE SCHEDULE 40 PVC.

ALL CONDENSATE, WATER HEATER DRAIN, AND VENT PIPING TO BE SCHEDULE 40 PVC.

FOR DRAINAGE PIPING CHANGES IN DIRECTION, USE LONG-SWEEPS. WHERE NOT POSSIBLE SHORT-SWEEPS, 1/4 BENDS OR COMBINATION Y AND 1/8 BENDS, MAY BE USED. SANITARY TEES MAY ONLY BE USED FOR HORIZONTAL BRANCHES DISCHARGING INTO STACKS.

ALL SANITARY, STORM, WATER, AND CONDENSATE PIPING PASSING UNDER A FOOTING OR THROUGH A FOUNDATION WALL SHALL BE PROVIDED WITH A PIPE SLEEVE OF SCHEDULE 40 PVC BUILT INTO THE MASONRY WALL. SLEEVE SHALL BE TWO PIPE SIZES GREATER THAN THE PIPE PASSING THROUGH.

WATER HEATER AND AIR CONDITIONING DRAINS AND RISERS SHALL BE SCHEDULE 40 PVC.

ALL DRAINAGE PIPING SHALL BE MARKED WITH THE SEAL OF APPROVAL OF THE NATIONAL SANITATION FOUNDATION.

ALL EXPOSED PVC PIPING TO BE CLEANED WITH CLEAR CLEANER AND THEN PRIMED AND PAINTED WITH A LATEX BASE PAINT COLOR TO BE CHOSEN BY ARCHITECT. THIS INCLUDES ALL EXPOSED PVC PIPING IN GARAGE.

##### WATER PIPING

WATER PIPING ABOVE GRADE TO BE CPVC. NO FITTINGS ARE TO BE INSTALLED BENEATH THE FINISHED SLAB. SEE CIVIL ENGINEER'S SITE PLAN FOR BUILDING SERVICE PIPING TYPE.

PIPING RUNNING PARALLEL TO CONCRETE SHALL BE ISOLATED FROM CONCRETE STRUCTURE UTILIZING AN OFFSET HANGER OF THE APPROPRIATE MATERIAL.

ALL WATER PIPING PASSING THROUGH METAL STUD WALLS SHALL BE ISOLATED FROM STUDS WITH METAL STUD INSULATOR. VERTICAL PIPING RUNS IN STUD WALLS WILL BE SUPPORTED TO LIMIT EXCESS MOVEMENT WITHIN THE WALL WITH A PIPE SUPPORT BRACKET.

CONNECTIONS BETWEEN DISSIMILAR METALS SHALL BE MADE WITH DIELECTRIC UNIONS OR DIELECTRIC ADAPTERS.

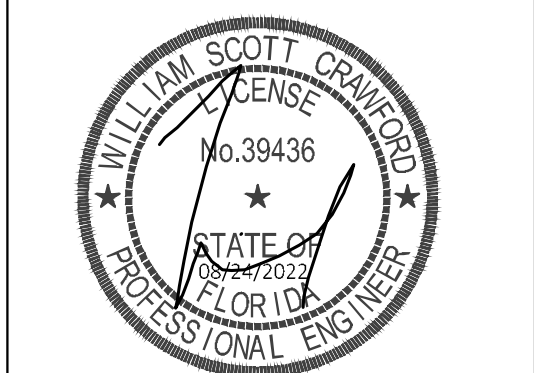
ALL WATER PIPING IS TO BE ISOLATED FROM METAL WALL STUDS SO THAT NO CONTACT IS MADE.

PLASTIC PIPING PASSING THROUGH STUDS SHALL BE PROTECTED FROM DRYWALL SCREWS WITH A GALVANIZED STEEL PLATE.

WATER HAMMER ARRESTORS SHALL BE MECHANICAL PISTON TYPE AS PER PD-W4021. ARRESTORS SHALL BE RATED BY MANUFACTURER FOR CONCEALED LOCATIONS IN AREAS WHERE THERE IS NO ACCESS. AIR CHAMBERS SHALL NOT BE CONSIDERED EQUIVALENT AND WILL NOT BE ACCEPTED.

WATER HAMMER ARRESTORS SHALL BE INSTALLED AT EVERY QUICK CLOSING VALVE, INCLUDING, WASH MACHINES, DISHWASHERS, ICE MACHINES, SHOWERS AND BATHS, SINKS AND LAVATORIES WITH SINGLE LEVER FAUCETS.

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PROPOSED NEW HOME FOR:

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498 S. TAMAMI TRL.  
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##### PLUMBING NOTES AND DETAILS

Sheet Title

Drawing Name:	NOKOMIS OFFICE
Design:	CWE
Issues:	08/24/2022
Job No.:	2203

Sheet Number:

P-5

TO THE BEST OF THE ENGINEER'S KNOWLEDGE, SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE BUILDING CODES AND THE APPLICABLE MINIMUM FIRE SAFETY STANDARDS AS DETERMINED IN ACCORDANCE WITH CHAPTERS 553 AND 633, FLORIDA STATUTES