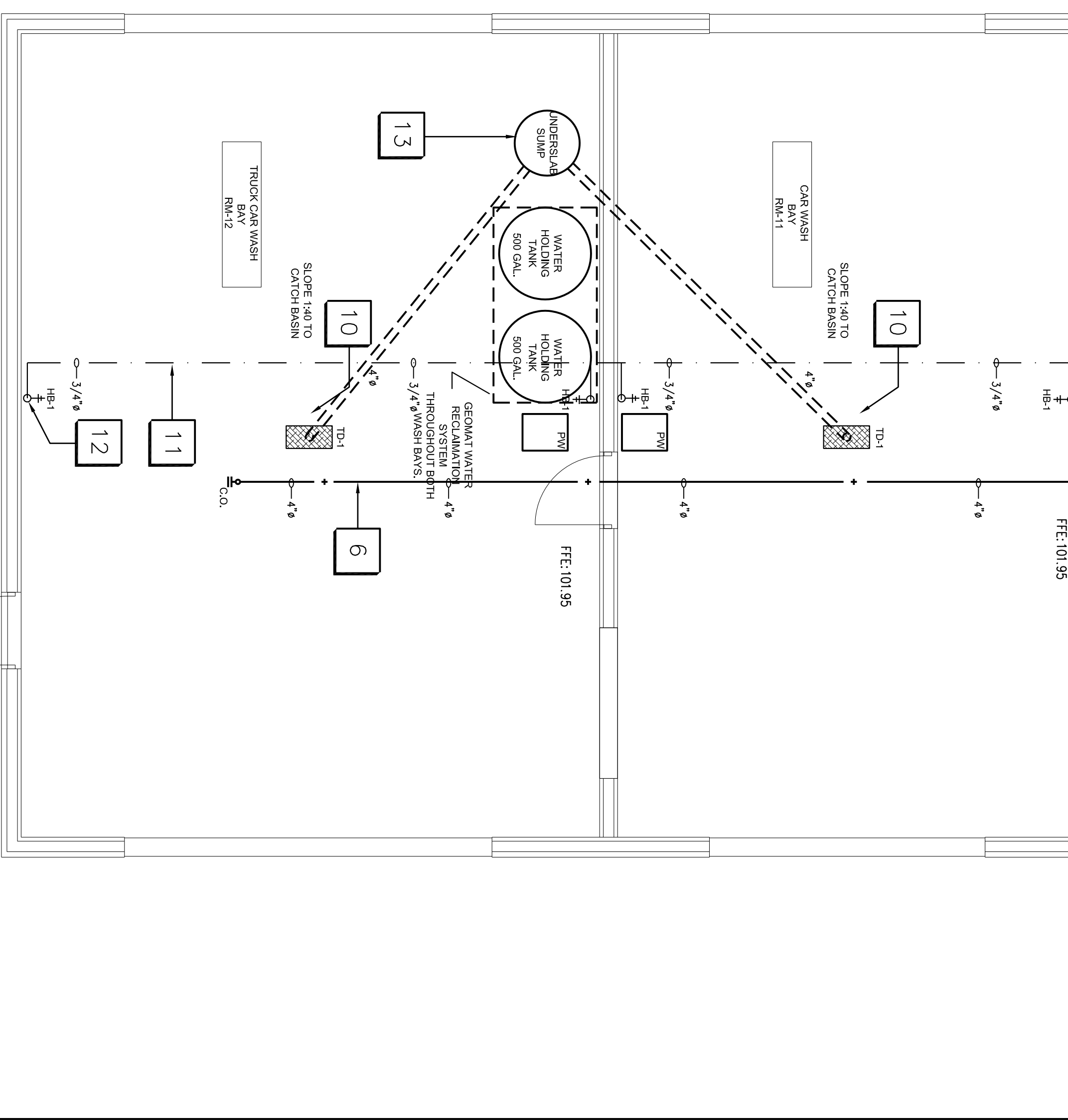


1 MECHANICAL FLOOR PLAN
SCALE: 1 : 50



PIPING MATERIAL AND INSULATION SCHEDULE

Service	Service Abbr.	Material	Connection Type	Oper. Temp. (F)	Max. Temp. (F)	Test Press. (psig)	Location	Insulation Thickness	Jacket Thickness	
Natural Gas	G	Carbon Steel	Thread/Butt Weld	75	80	0 - 1	3	Indoor, Outdoor	NONE	N/A
Sanitary Waste	-	Copper/Coast Iron	Solder/M.J.	40 - 110	140	0	10 FT. HD.	Indoor	NONE	N/A
Sanitary Vent	-	Copper/Coast Iron	Solder/M.J.	40 - 110	140	0	10 FT. HD.	Indoor	NONE	N/A
Domestic Water	-	Copper	Solder	40	70	80	120	Indoor	Fiberglass	YES
Domestic Hot Water	-	Copper	Solder	110	140	80	120	Indoor	Fiberglass	YES
Sanitary Waste (buried)	-	Plastic	Plastic Weld	40 - 110	140	0	10 FT. HD.	Indoor	NONE	N/A

PLUMBING FIXTURE CONNECTIONS AND SPECIFICATIONS

FIX. REF.	FIXTURE	HOT WATER	COLD WATER	DIR. DRAIN	VENT	REMARKS
WC-1	WATER CLOSET (F.T.)	-	1/2"	3"	1-1/2"	FLOOR MOUNTED WATER CLOSET, BARBER FREE, ELONGATED BOWL, DUAL 4 1/2" & 6 1/2" FLUSH VALVE, ZURN Model Z6600A-V-N51.
L-1	LAVATORY	1/2"	1/2"	1-1/4"	1-1/4"	WALL MOUNTED VITREOUS CHINA LAVATORY BARBER FREE TYPE, WALL CARRIER SUPPORT SINGLE LEVER FAUCET, ZURN Model Z3110, INSULATE HOT WATER AND DRAIN 0" - 5".
WH-1	WALL HYDRANT	-	3/4"	-	-	NON FREEZE WALL HYDRANT WITH NICKEL BRONZE BOX AND DOOR, CHROME PLATED FAC, INTEGRAL VACUUM BREAKER, WAITS Model HR-725.
HB-1	INDOOR HOSE BIBB	-	3/4"	-	-	INDOOR WALL HYDRANT WITH NICKEL BRONZE BOX AND DOOR, CHROME PLATED FAC, INTEGRAL VACUUM BREAKER, WAITS Model HR-430.
FD-1	FLOOR DRAIN	-	1/2"	3"	2"	FINISH FLOOR, FLOOR DRAIN, PROVIDE PRAP SEAL PRIMER, BRONZE GRATE ADJUSTABLE NECK, CAST IRON EXPO BODY WAITS MODEL #FD-102-C-A6-1
TD-1	TRENCH AREA DRAIN	-	1/2"	4"	2"	OIL/SEDIMENT INTERCEPTOR HEAVY DUTY CAST IRON GRATE "ZURN" 4" DIA. OUTLET MODEL #Z-1189-60, OVERALL SIZE 30"x24", DEPT TO BE COORDINATED WITH CAR WASH SYSTEM
HW-1	HOT WATER TANK	1/2"	1/2"	1"	-	ELECTRIC HOT WATER TANK, 6 IMPER. GALLONS CAPACITY 1500V ELEMENT 120V 10, TANK TO BE C/W TRAP, RELIEF VALVE TYPED TO PLUMBING CODE, JOHN MOOD #4 SWIZZE

DRAWING NOTES:

- NEW BUILDING GAS METER BY ENBRIGE GAS, TOTAL CAPACITY 300MBH, MECHANICAL CONTRACTOR TO COORDINATE ALL NATURAL GAS WORK WITH ENBRIGE PRIOR TO GAS PIPING AND RELATED EQUIPMENT FINAL LAYOUT.
- PROVIDE NEW 2" MAIN WATER BUILDING PIPING, PROVIDE PIPE STEVE THRU CONDOMINIUM WALL, CONTRACTOR TO COORDINATE FOR EXACT WATER PIPE LOCATION.
- PROVIDE NEW 1" WATER METER AS PER CITY REQUIREMENTS, PROVIDE WALL MOUNTED REMOTE WATER METER READ OUT AS SHOWN.
- PROVIDE NEW ELECTRIC HOT WATER TANK "HW-1" FOR CAPACITY AND DETAILS REFER TO SPECIFICATION BELOW. ALL WORK TO COMPLY WITH PLUMBING CODE.
- PROVIDE COLD AND HOT DOMESTIC WATER PIPING HANGERS AND SUPPORTS AS PER CODE. ALL COLD AND HOT WATER PIPES TO BE INSULATED WITH 1" THICK THERMAL INSULATION C/W PVC COVER JACKET (TYPICAL FOR ALL).
- PROVIDE ALL SANITARY DRAINAGE BURIED PIPING SIZES AS SHOWN. PROVIDE PIPING SLOPE AS PER PLUMBING CODE. REFER TO EXISTING INVERTS AS PER SITE PLAN.
- PROVIDE NEW FLOOR DRAIN "FD-1" AS SPECIFIED BELOW, PROVIDE TRAP SEAL PRIMER AS PER CODE (TYPICAL FOR ALL).
- PROVIDE NEW WASHROOM PLUMBING, PIPING HANGERS AND SUPPORTS AS SHOWN. ALL PLUMBING CONNECTION SCHEDULE BELOW (TYPICAL FOR ALL).
- SANITARY SEWER SERVICE FOR PIPE CONNECTIONS AND EXACT LOCATION REFER TO SITE PLAN DRAWINGS.
- PROVIDE CAR WASH OIL/SEDIMENT INTERCEPTOR WITH HEAVY DUTY GRATE AS PER SPECIFICATIONS BELOW, COORDINATE THIS WORK WITH GENERAL TRADES PRIOR TO FINAL LOCATIONS. (TYPICAL OF 2).
- PROVIDE COLD DOMESTIC WATER PIPING LAYOUT AS SHOWN, RUN IN JOINTS SPACE. SUPPORTS AS PER CODE. COLD WATER PIPING TO BE INSULATED WITH 1" THICK THERMAL INSULATION C/W PVC COVER JACKET (TYPICAL FOR ALL).
- PROVIDE NEW WALL MOUNTED COLD WATER HOSE BIB REFER TO SPECIFICATIONS BELOW. (TYPICAL OF 4).
- PROVIDE NEW "GEOMANT" CLOSED LOOP WASTE WATER RECOVERY SYSTEM, ALL COMPLETE EQUIPMENT BY APPROVED CONTRACTOR AS PER MANUFACTURER INSTALLATION INSTRUCTIONS. ALL INSTALLATION SHALL COMPLY WITH OBC 2012.

HVAC LEGEND:

- ☒ SUPPLY AIR DIFFUSER
- ☒ SUPPLY AIR 'UP'
- ☒ SUPPLY AIR 'DOWN'
- ☒ RETURN AIR 'UP'
- ☒ RETURN AIR 'DOWN'
- ☒ DUCT WITH INSULATION
- ☒ RETURN AIR GRILLE
- ☒ FLEXIBLE DUCT CONNECTION
- ☒ BALANCING DAMPER

PLUMBING LEGEND:

- ☒ HOT WATER SUPPLY ABOVE SLAB
- ☒ COLD WATER SUPPLY ABOVE SLAB
- ☒ SANITARY DRAIN ABOVE SLAB
- ☒ SANITARY DRAIN UNDER SLAB
- ☒ VENT PIPING
- ☒ SANITARY P-TRAP
- ☒ SHUT-OFF VALVE

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ISSUE RECORD

No	DATE	REVISION
1	14-02-2020	ISSUED FOR CONSTRUCTION
2	27-06-2019	ISSUED FOR TENDER
3	27-06-2019	ISSUED FOR BUILDING PERMIT
4	28-09-2018	ISSUED FOR REVIEW
5	13-06-2018	ISSUED FOR CLIENT REVIEW

CLIENT:
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PROJECT TITLE:
228 HUNTWAR DRIVE
HUNTWAR/PALLADIUM DR. ENTERPRISE
MECHANICAL
DRAWING TITLE:
MECHANICAL
PLUMBING DISTRIBUTION

MECHANICAL
DRAWN BY: S.J.S.
CHECKED BY: J.C.J.
SCALE: 15-610
JOB NO.: M-1
DRAWING NO.: AS NOTED