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08/05/19				AS SHOWN	05/31/19		JKJ	JKJ	JDM
8/30/2019	ADDENDUM 2	2							

**LAKELAND TRANSFER STATION**  
**LAKELAND COMMUNITY COLLEGE**  
 7700 CLOCKTOWER DR., KIRTLAND, OH 44094

**PLUMBING PLAN, LEGEND, ABBREV., NOTES, & STACK DIAGRAM**

PROJECT NO.	18050002
DISCIPLINE	PLUMBING
SHEET NAME	P-1
SHEET	OF
-	X

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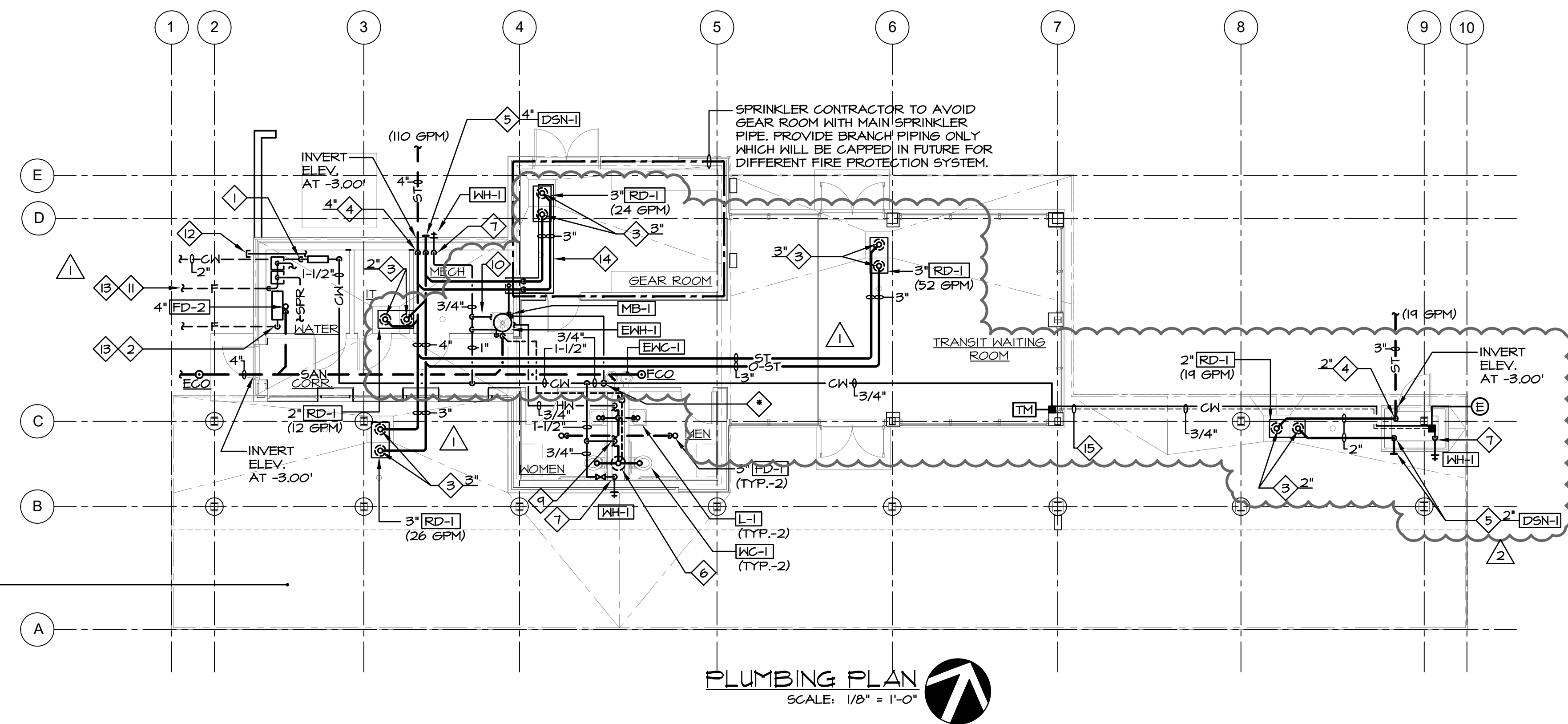


**PLUMBING SYMBOLS**

	REDUCED PRESSURE BACKFLOW PREVENTER
	CLEANOUT
	CHECK VALVE
	CLEANOUT (HORIZONTAL)
	PIPE ELBOW, DOWN
	PIPE ELBOW, UP
	PIPE TEE, DOWN
	PIPE TEE, UP
	TEMPERATURE AND PRESSURE RELIEF VALVE
	VACUUM RELIEF VALVE
	SHUTOFF VALVE
	THERMOMETER
	UNION
	STORM SEWER PIPING (BELOW FLOOR OR GRADE)
	SANITARY WASTE PIPING (BELOW FLOOR OR GRADE)
	VENT PIPING
	DOMESTIC COLD WATER (BELOW FLOOR OR GRADE)
	DOMESTIC COLD WATER
	DOMESTIC HOT WATER
	STORM SEWER PIPING (ABOVE FLOOR)
	OVERFLOW STORM SEWER PIPING (ABOVE FLOOR)
	FIRELINE WATER (BELOW FLOOR OR GRADE)
	SPRINKLER PIPING
	HOT WATER MAINTENANCE CABLE POWER CONNECTION
	HOT WATER MAINTENANCE CABLE END OF LINE RESISTOR

**PLUMBING ABBREVIATIONS**

AFF	ABOVE FINISHED FLOOR
AHJ	AUTHORITY HAVING JURISDICTION
ARCH	ARCHITECT
BFF	BELOW FINISHED FLOOR
CW	DOMESTIC COLD WATER
deg. F	DEGREES FAHRENHEIT
DIA	DIAMETER
E.C.	ELECTRICAL CONTRACTOR
ECO	EXTERIOR CLEANOUT
FD	FLOOR DRAIN
G.C.	GENERAL CONTRACTOR
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
HW	DOMESTIC HOT WATER
in. w.c.	INCHES WATER COLUMN
KW	KILOWATT
L	LAVATORY
M.C.	MECHANICAL CONTRACTOR
MIN	MINIMUM
MR	MOP RECEPTOR
MV	MIXING VALVE
OFC	OHIO PLUMBING CODE
P	PUMP
P.C.	PLUMBING CONTRACTOR
PH	PHASE
PVC	POLYVINYL CHLORIDE PLASTIC
QTY	QUANTITY
TYP.	TYPICAL
V	VOLTS
VTR	VENT THROUGH ROOF
WC	WATER CLOSET
WH	WALL HYDRANT



**PLUMBING PLAN**  
 SCALE: 1/8" = 1'-0"

**F.P. SPRINKLER NOTE:**  
 PROVIDE DRY-PIPE SPRINKLER COVERAGE FROM DRY-PIPE SPRINKLER SYSTEM WITHIN CANOPY. SPRINKLER PIPING WILL BE THROUGH THE STRUCTURE. CONTRACTOR TO SUBMIT LAYOUT TO ARCHITECT FOR REVIEW PRIOR TO SUBMITTING FOR PERMIT.

**GENERAL PLUMBING NOTES**

- COORDINATE SCHEDULE OF WORK REQUIRED IN OCCUPIED AREAS WITH OWNER PRIOR TO STARTING SUCH WORK.
- SCHEDULE UTILITY SERVICE SHUTDOWNS REQUIRED FOR NEW CONSTRUCTION WITH OWNER AND GENERAL TRADES PRIOR TO SHUTTING DOWN SYSTEMS. GIVE ONE WEEK ADVANCE NOTICE IN WRITING.
- COORDINATE ROUTING OF NEW PIPING WITH NEW BUILDING CONDITIONS AND WITH WORK OF OTHER TRADES. PROVIDE CHANGES IN LOCATION, DIRECTION, OFFSETS, AS MAY BE REQUIRED, WHETHER SPECIFICALLY INDICATED OR NOT, AND AT NO ADDITIONAL COST TO THE OWNER.
- ALL FIXTURES SHALL BE PROVIDED WITH SHUT-OFF BALL VALVES ON SUPPLY LINES.
- ALL PUBLIC HAND WASHING SINKS AND LAVATORIES SHALL BE SUPPLIED WITH TEMPERED WATER WITH AN APPROVED WATER TEMPERATURE LIMITING DEVICE THAT CONFORMS TO ASSE 1010.
- ALL WORK TO BE COMPLETED IN ACCORDANCE WITH THE LOCAL BUILDING CODE AND AUTHORITY HAVING JURISDICTION.
- PLUMBING WORK SHALL BE COMPLETED BY AN INDIVIDUAL OR BUSINESS THAT IS LICENSED BY THE STATE CONSTRUCTION INDUSTRY LICENSING BOARD.
- ALL FLOOR DRAINS TO MEET SECTIONS 1002.4 OF THE OFC.

**FIRE PROTECTION NOTE**

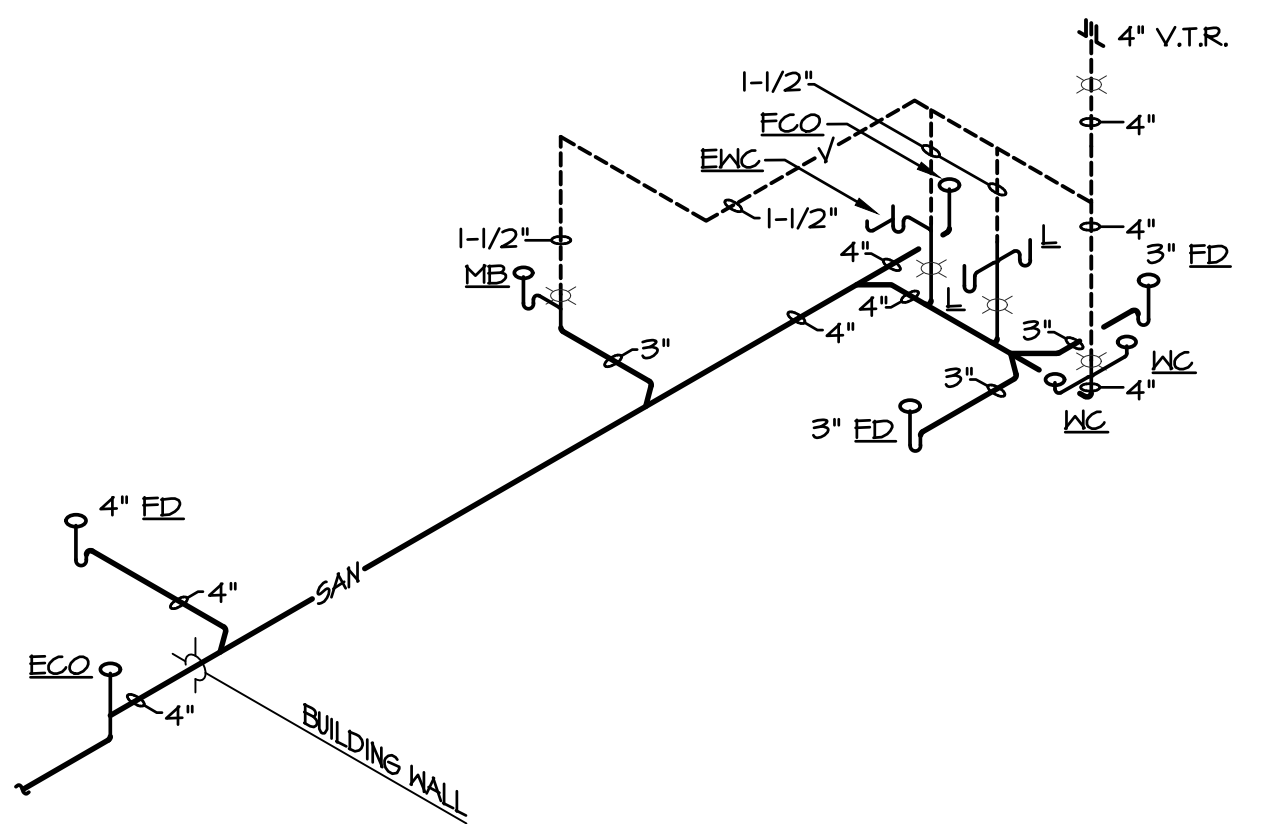
CONTRACTOR TO PROVIDE NEW SPRINKLER SYSTEM FOR COMPLETE BUILDING. REFER TO SPECIFICATIONS 21 05 00. COORDINATE FINAL LOCATION OF SPRINKLER HEADS WITH ARCHITECTURAL REFLECTED CEILING PLANS. SUBMIT SPRINKLER DRAWINGS AND HYDRAULIC CALCULATIONS TO BUILDING DEPARTMENT.

**GENERAL NOTES**

- REFER TO SHEET P-2 FOR PLUMBING FIXTURE CONNECTION SCHEDULE FOR ALL FIXTURE CONNECTION SIZES.
- REFER TO THIS SHEET FOR SANITARY STACK DIAGRAM FOR ALL SANITARY AND VENT SIZES.

**PLAN NOTES**

- 2 INCH DOMESTIC WATER SLEEVED AND SEALED UP THROUGH FLOOR TO WATER METER AND BACKFLOW PREVENTER TO MEET ASSE STANDARD 1013. SEE SHEET P-2 FOR DETAIL.
- 4 INCH FIRELINE SLEEVED AND SEALED UP THROUGH FLOOR, TO DOUBLE CHECK DETECTOR ASSEMBLY. REFER TO FIRE PROTECTION GENERAL NOTE ON THIS SHEET AND SEE SHEET P-2 FOR DETAIL.
- STORM SEWER PIPING UP THROUGH ROOF.
- STORM SEWER PIPING DOWN DOWN ALONG WALL OR IN CHASE TO BELOW FLOOR. PROVIDE CLEAN-OUT AT BASE.
- OVERFLOW STORM SEWER PIPING DOWN ALONG WALL OR IN CHASE TO OUTLET 30 INCHES ABOVE GRADE OUTSIDE. TERMINATE WITH DOWNSPOUT NOZZLE (COW TONGUE) J.R. SMITH MODEL #110.
- VENT PIPING UP TO VENT THROUGH ROOF.
- 3/4" COLD WATER DOWN ALONG WALL OR IN CHASE TO SERVE WALL HYDRANT. SLEEVE AND SEAL THROUGH WALL AT 30 INCHES ABOVE GRADE OUTSIDE.
- 3/4" HOT WATER AND 1-1/2" COLD WATER DOWN IN CHASE TO SERVE FIXTURES.
- 3/4" COLD WATER TO AND 3/4" HOT WATER FROM ELECTRIC WATER HEATER ABOVE MOP BASIN ON SHELF. SEE SHEET P-2 FOR ELECTRIC WATER HEATER DETAIL AND SCHEDULE.
- 4" FIRELINE FROM BUILDING BELOW GRADE TO FIRE DEPARTMENT CONNECTION. REFER TO CIVIL DRAWING FOR LOCATION.
- 1-1/2" SLEEVED AND SEALED THROUGH WALL FOR IRRIGATION.
- FIRELINE AND FIRE DEPARTMENT CONNECTION TO BE BROUGHT INSIDE BUILDING AS PART OF SITE CONTRACT A, WHICH MAKES REFERENCE TO THE LOCATION SHOWN ON THIS DRAWING. THIS WORK IS NOT INCLUDED AS PART OF THIS CONTRACT B.
- PROVIDE SHEET METAL DRIP PAN BELOW PRIMARY AND OVERFLOW STORM PIPING ABOVE ELECTRICAL EQUIPMENT IN GEAR ROOM. 2 INCH DRAIN PIPE AT BOTTOM OF SLOPED PAN TO SAFE-WASTE ABOVE MOP BASIN.
- PROVIDE HEAT TRACE, THERMON 3-FLX-1 SELF-REGULATING HEATING CABLE OR EQUAL FROM POWER CONNECTION ON COLD WATER PIPE APPROX. 50 FEET TO END TERMINATION KIT AT WALL HYDRANT WITHIN CHASE. 16 GA. NICKEL PLATED COPPER BUS WIRE, 1 INCH POLYOLEFIN INSULATING JACKET, 120 VOLT/ 1 PHASE/ 60 HZ. FURNISHED AND INSTALLED WITH ALL MANUFACTURER'S RECOMMENDATIONS AND ACCESSORIES. TEST SYSTEM PER MANUFACTURER'S REQUIREMENTS.



**SANITARY STACK DIAGRAM**  
 NO SCALE