DIFFUSER & GRILLE SCHEDULE:					
DESIGNATION	MANUFACTURER	MODEL No.	CEILING TYPE	REMARKS	EQUAL
А	-	-	T-BAR	EXT'G 24"x24" SQUARE PLAQUE DIFFUSER / INLET SIZE AS SHOWN ON FLOOR PLAN	
SP	E.H. PRICE	SPD/24"x24"	T-BAR	NEW 24"x24" SQUARE PLAQUE DIFFUSER / OFF-WHITE FINISH INLET SIZE AS SHOWN ON FLOOR PLAN	NAILOR, TITUS
DG	E.H. PRICE	ATG1/BF/WHITE	-	NEW ALUMINUM DOOR GRILLE / BORDER ON BOTH SIDES / WHITE FINISH SIZES AS SHOWN ON FLOOR PLAN	NAILOR, TITUS
GR	E.H. PRICE	530D/B12	DRYWALL	NEW STEEL RETURN AIR GRILLE / HORIZONTAL DEFLECTORS / WHITE FINISH SIZES AS SHOWN ON FLOOR PLAN	NAILOR, TITUS
R	E.H. PRICE	80 SERIES	T-BAR	NEW ALUMINUM EGGCRATE FACE RETURN GRILLE / WITH OPTIONAL DAMPER / WHITE FINISH / SIZE AS SHOWN ON FLOOR PLAN	NAILOR, TITUS

EXHAUST FAN SCHEDULE:								
DESIGNATION	DESCRIPTION	MANUFACTURER	MODEL No.	CFM	E.S.P.	FLA	RPM	VOLTAGE
EF-01	EXT'G WASHROOMS EXHAUST FAN IN PENTHOUSE	HAAKON INDUSTRIES	AIRPAK	2,200	1.75"WC	1.2 (2x)	3793 (MAX.)	120V/1PH
							-	

## NOTES

- ALL CONSTRUCTION WORK IN THE BUILDING MUST BE CARRIED OUT IN STRICT ACCORDANCE WITH OWNER'S RULES & REGULATIONS.
- 2 ALL EXT'G VAV BOXES ARE COMPLETE WITH DDC CONTROLS. ALL HVAC CONTROL WORK (INCLUDING ALL PROGRAMMING, BAS COMPUTER GRAPHICS UPDATE, CONTROL HARDWARES & WIRING, RELOCATION OF TEMPERATURE SENSORS, ETC.) SHALL BE PERFORMED BY BASE BUILDING HVAC CONTROL CONTRACTOR. CONTRACTOR TO OBTAIN BASE BUILDING HVAC CONTROL CONTRACTOR'S CONTACT INFORMATION PRIOR TO TENDER CLOSE.
- PROVIDE ADDITIONAL CROSS TEES FOR ALL DIFFUSERS & AIR GRILLES
  AS REQUIRED AS REQUIRED.
- 4 ALL NEW DUCT CONNECTIONS (JOINTS & SEAMS) ARE TO BE SEALED WITH DUCT SEALER TO PROVIDE AN AIR TIGHT DUCT SYSTEM. DUCT TAPE IS NOT ACCEPTABLE. PROVIDE AIR SEALANT WHEN BASE BUILDING AIR HANDLING UNITS & WASHROOM EXHAUST FAN ARE 'OFF'.
- 5 ALL UNUSED SPIN-ON OR DUCTWORK OPENINGS SHALL BE CAPPED
- 6 UNLESS OTHERWISE SHOWN, NEW FLEXIBLE DUCTWORK TO HAVE A MAXIMUM LENGTH OF 3M (10'). CONNECT DUCTWORK TO DIFFUSERS AND RIGID DUCTWORK WITH A MINIMUM OF 3 TAPPING SCREWS, SEAL WITH DUCT SEALER AND WRAP WITH GLASS FAB TAPE. FLEXIBLE DUCTWORK TO BE SUPPORTED FROM BUILDING STRUCTURE WHERE IT IS NOT SELF-SUPPORTING AND MUST NOT BE ALLOWED TO LIE ON CEILING OR OTHER EQUIPMENT.
- HVAC CONTRACTOR SHALL COORDINATE ALL DUCTWORK INSTALLATION WITH ELECTRICAL, SPRINKLER, & GENERAL CONTRACTORS PRIOR TO ROUGH-IN TO AVOID INTERFERENCE.
- AT THE END OF PROJECT, WIPE & VACUUM CLEAN THE SURFACE OF ANY EXT'G & NEW DIFFUSERS & RETURN AIR GRILLES FOUND TO BE
- 9 PROVIDE AIR BALANCING FOR ALL VAV BOXES SHOWN ON THIS FLOOR PLAN. ALL HVAC CONTROL WORK SHALL BE PERFORMED BY OWNER'S APPROVED BASE BUILDING HVAC CONTROL CONTRACTOR. RETAIN & PAY FOR BASE BUILDING HVAC CONTROL CONTRACTOR. HVAC CONTROL TECHNICIAN IS TO BE PRESENT AT SITE DURING AIR BALANCING FOR CALIBRATION OF VAV CONTROLLERS. ALLOW FOR AN ADDITIONAL AIR BALANCING TRIP WITHIN 12 MONTHS FROM THE END OF THE PROJECT FOR FUTURE AIR FLOW ADJUSTMENT.
- PROVIDE TRANSFER AIR DUCT. DIMENSIONS INDICATED ARE OUTSIDE DIMENSIONS. MOUNT TRANSFER AIR DUCT AS HIGH AS POSSIBLE. VERIFY SITE CONDITION PRIOR TO FABRICATION TO ALLOW ADJUSTMENT IN DUCT SIZES. ADJUST LOCATION AT SITE TO AVOID BLOCKING ANY ELECTRICAL JUNCTION BOX.
- RELOCATE EXT'G 20"x10" 'L' SHAPE TRANSFER AIR DUCT TO NEW LOCATION AS SHOWN DUE TO RELOCATION OF EXT'G PARTITION.
- RELOCATE EXT'G VAV BOX TEMPERATURE SENSOR TO LOCATION AS SHOWN. PROVIDE NEW PLENUM-RATED WIRING.
- CAP OFF BOTTOM DUCT OPENING WITH SHEET METAL & SEAL WITH DUCT SEALANT.
- (14) EXT'G HOT WATER REHEAT COIL & ALL ITS ASSOCIATED ACTUATOR, CONTROL VALVE, PIPING, ETC. TO REMAIN AS IS.

- 215 PROVIDE GALVANIZED STEEL, OPPOSED BLADE, DOUBLE-FLANGED MANUAL BALANCING DAMPER. CONFIRM EXACT DUCT SIZE AT SITE PRIOR TO ORDERING. BALANCE TO AIR FLOW VALUE AS SHOWN.
- DRILL HOLES (FOR PITOT TUBE) IN EXT'G DUCT TO ALLOW DUCT TRANSVERSAL AIRFLOW MEASUREMENT FOR AIR BALANCING. BALANCE THE EXHAUST AIR AT THIS BRANCH DUCT TO THE VALUE AS SHOWN. PROVIDE HOLE PLUGS AFTER AIR BALANCING HAS BEEN
- 17 BALANCE TO AIR FLOW VALUE AS SHOWN.
- ALL EXT'G & NEW DUCT WORK DOWNSTREAM OF EXT'G VAV BOX #VAV-0-4 (INCLUDING FLEXIBLE DUCTS) & THE 7"Ø INLET DUCT SHALL BE EXTERNALLY INSULATED WITH 1" DUCT INSULATION TO MATCH EXT'G BUILDING STANDARD.
- (19) CONTRACTOR TO ALLOW REMOVAL & REINSTALLATION OF EXT'G DIFFUSER TO ALLOW REMOVAL & INSTALLATION OF T-BAR CEILING.
- STORAGE ROOM B050 OUTDOOR AIR REQUIREMENT: (182 SQFT x 0.06 SQFT + 0 x 5 CFM/PPL)

### = 10.92 CFM

**OUTDOOR AIR SUPPLY:** 

TOTAL OUTDOOR AIR SUPPLY IS 20% OF SUPPLY AIR = 60 CFM x 0.2 =

## **DEN B107 OUTDOOR AIR REQUIREMENT:**

(220 SQFT x 0.06 SQFT + 1 x 5 CFM/PPL)/0.8

## **OUTDOOR AIR SUPPLY:**

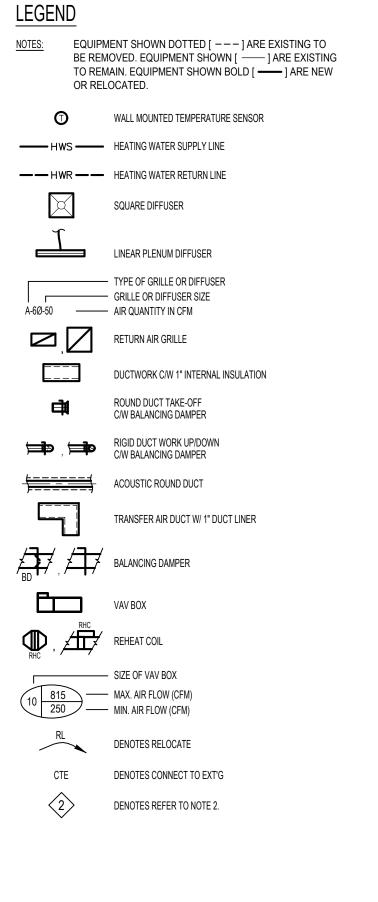
TOTAL OUTDOOR AIR SUPPLY IS 20% OF SUPPLY AIR = 135 CFM x 0.2 =

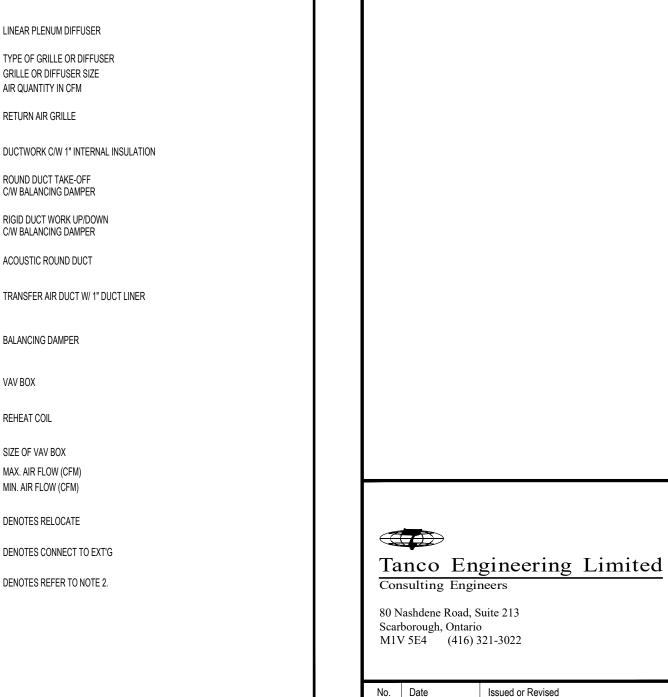
# NEW WOMEN'S LOCKERS B106 OUTDOOR AIR

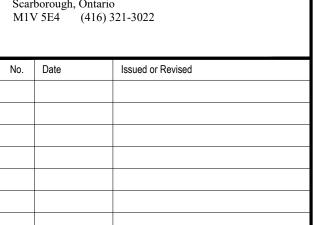
(1125 SQFT x 0.06 SQFT + 4 x 5 CFM/PPL)/0.8 = 109.4 CFM

## **OUTDOOR AIR SUPPLY:**

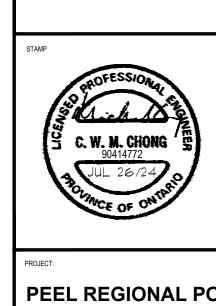
TOTAL OUTDOOR AIR SUPPLY IS 20% OF SUPPLY AIR = 650 CFM x 0.2 =







July 26, 2024 Issued for Permit & Tender July 4, 2024 Issued for Client Review

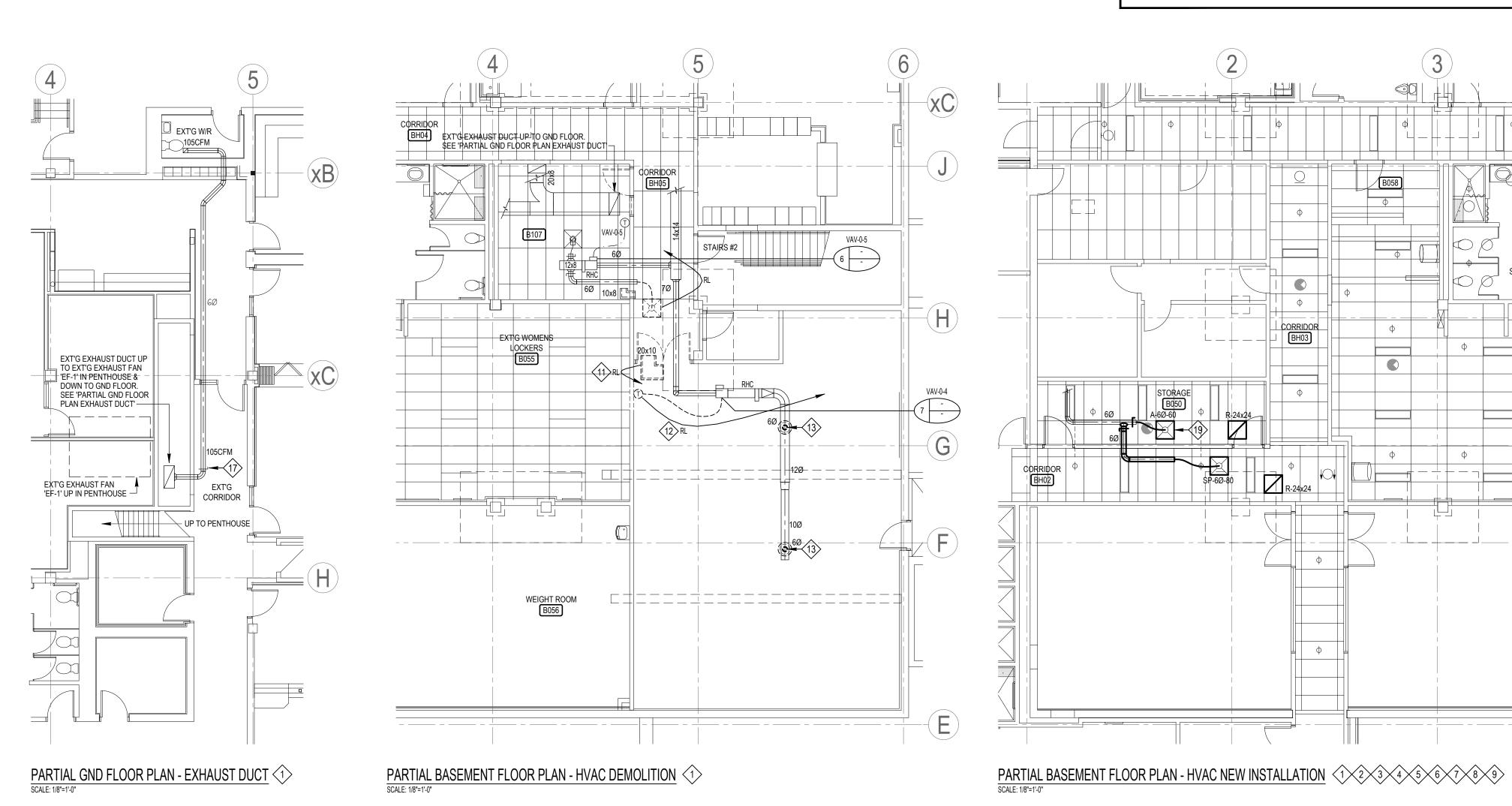


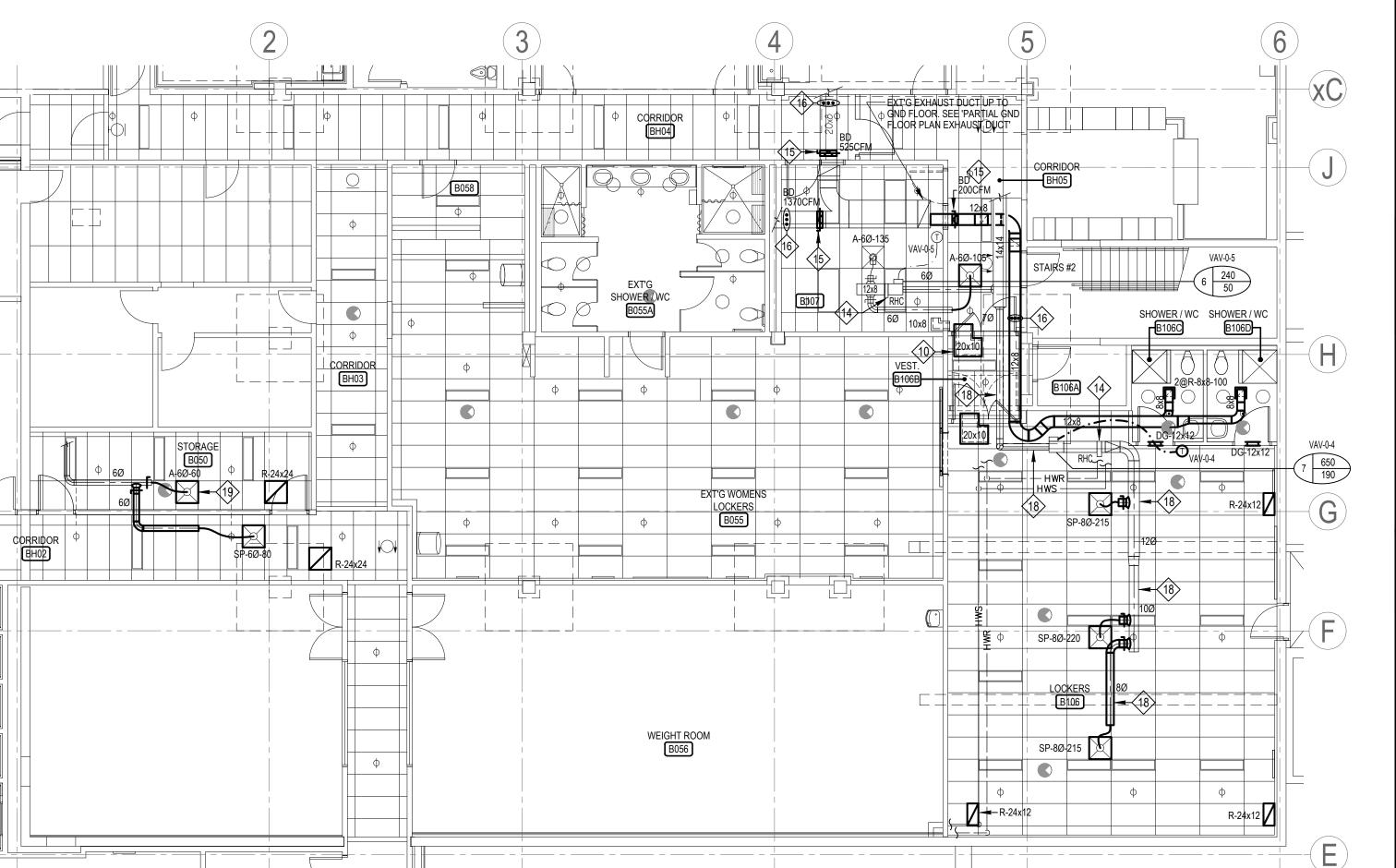
PEEL REGIONAL POLICE

BASEMENT 3030 ERIN MILLS PARKWAY MISSISSAUGA, ON

PARTIAL BASEMENT FLOOR PLANS - HVAC

DRAWING NO.	M-	-1	
DRAWN BY	AL/MC	PROJECT NO.	2408
SCALE	AS NOTED	DATE	APR 30, 2024





	PLUMBING FIXTURE CONNECTION SCHEDULE:						
ITEM	DESCRIPTION	VENT	CW	HW	WASTE	COMMENTS	
B-1	NEW BASIN	1 1/2"	1/2"	1/2"	1 1/2"		
SH-1	NEW SHOWER FITTING	1 1/2"	1/2"	1/2"	2"		
WC-1	NEW WATER CLOSET (FLUSH VALVE)	1 1/2"	1/2"	-	3"		
FD	NEW 4" FLOOR DRAIN	1 1/2"	-	-	4"		

## PLUMBING FIXTURES

# 'B-1' WALL HUNG BASIN ELECTRONIC TOUCHLESS FAUCET THERMOSTATIC MIXING VALVE:

- AMERICAN STANDARD #0954004EC.000 'MURRO' UNIVERSAL DESIGN WALL-HUNG LAVATORY SINK, WHITE FINISH C/W VITREOUS CHUNA SHROUD/KNEED CONTACT GUARD

#0059.020EC.020.

- DELTA #591T0228TR, ELECTRONIC FAUCET HARDWIRED C/W
DELTA FAUCET CONTROL BOX #ELAVT0008ARI. CONTROL BOX
SHALL BE C/W THERMOSTATIC MIXING VALVE.

- OS&B #370 OPEN GRID DRAIN C/W #4831-6 17 GAUGE TAILPIECE.

- MCGUIRE #LFH170BV, POLISHED BRASS FAUCET SUPPLIES.

- PROVIDE OS&B #95-7.5 P-TRAP.

- PROVIDE TEE, ADAPTORS AND FLEX. COPPER TUBING TO SUIT INSTALLATION.

20VA
- WATTS WCA-411-D-CA-481 BACK-TO-BACK CARRIER, LAVATORY
CARRIER, FOR CONCEALED ARM CARRIER, ADJUSTABLE ARMS,
EPOXY COATED CAST IRON, TWO (X2) WALL MOUNTED STEEL

SUPPORT PLATES WITH PLATED HARDWARES FOR MOUNTING

- PROVIDE HARDWIRE TRANSFORMER DELTA #RP32508, 24VAC,

## 'SH-1' SHOWER, SHOWER HEAD:

OF KNEE SHROUDS.

- DELTA #T17TH135 'TECK' T17TH SERIES - MULTICHOICE UNIVERSAL THERMOSTATIC SHOWER SYSTEM, POLISHED CHROME FINISH, TEMPASSURE 17T THERMOSTATIC CARTRIDGE, ADA COMPLIANT METAL LEVER VOLUME CONTROL HANDLE, FIELD ADJUSTABLE TEMPERATURE DIAL, TOUCH CLEAN SHOWER HEAD, ARM AND FLANGE.
- PROVIDE MULTICHOICE UNIVERSAL TUB / SHOWER ROUGH-IN -

UNIVERSAL INLETS / OUTLETS #R10000-UNWS.
- MAXIMUM TEMPERATURE SETTING FOR INCOMING HOT WATER SHALL BE 120°F OR LESS.

#### 'WC-1' FLOOR MOUNTED TOILET - VITREOUS CHINA:

- AMERICAN STANDARD 3451.001 TOILET 'MADERA FLOWISE' -FLOOR MOUNTED, TOP SPUD, COMBINATION TOILET AND FLUSH VALVE, VITREOUS CHINA, WHITE FINISH, TOILET, ELONGATED BOWL.

- ZURN #ZEMS6000AV-IS-WS1 HARDWIRE AUTOMATIC SENSOR

FLUSH VALVE C/W AQUASENSE #P6000-HW6 7.6 VDC HARDWIRED POWER CONVERTER.

- CENTOCO 500STSCC-001 SEAT - FOR ELONGATED BOWL, OPEN FRONT ONLY, POLYPROPYLENE, TOILET SEAT, NO SEAT COVER, AND COMMERCIAL GRADE HINGES, WHITE FINISH.

- MCGUIRE LFH166LK SUPPLY - LEAD FREE, PREMIERE HEAVY LOOSE SUPPLY, CHROME PLATED, 3/8" (9.5 MM) IPS X 3/8" (9.5 MM) OUTER Ø HEAVY STOP VALVE, 12" (304 MM) STEEL BRAIDED

#### 'FD' FLOOR DRAIN - FINISHED AREA:

- WATTS FD-104T-C-L5-1 FLOOR DRAIN - EPOXY COATED CAST IRON, FLOOR DRAIN,ADJUSTABLE SQUARE 13 MM (1/2") THICK REINFORCED TOP, 102 MM (4") PIPE SIZE, THREADED OUTLET, 127 MM (5") SQUARE NICKEL BRONZE STRAINER, TRAP PRIMER CONNECTION WITH PLUG.

#### 'TSPV' ELECTRONIC TRAP SEAL PRIMER VALVE (FOR FLOOR DRAINS 'FD'):

RISERS, CONVERTIBLE LOOSE KEY HANDLE.

- SIOUX CHIEF #695-ES01 OR EQUAL, 120V, 9.2W C/W 5-WAY SPLITTER. CONNECT TRAP SEAL PRIMER VALVE TO CW LINE. INSTALL TRAP SEAL PRIMER VALVE AS PER MANUFACTURER'S INSTRUCTION.

#### NOTES

- ALL CONSTRUCTION WORK IN THE BUILDING MUST BE CARRIED OUT IN STRICT ACCORDANCE WITH OWNER'S RULES & REGULATIONS.
- ALL NEW CW & HW LINES SHALL BE INSULATED WITH 1/2" PREMOLDED PIPE INSULATION WITH FACTORY APPLIED VAPOUR SEAL JACKET OF VINYL COATED FOIL CRAFT LAMINATE WITH REINFORCING OF OPEN MESH GLASS FIBRE. ALL NEW HOT WATER & COLD WATER PIPING SHALL BE TYPE 'L' COPPER.
- PIPING ROUTING ARE SHOWN DIAGRAMMATICALLY ON THE FLOOR PLAN. CONTRACTOR TO VERIFY PIPE LOCATIONS & ROUTING AT SITE PRIOR TO TENDER CLOSE.
- PLUMBING CONTRACTOR SHALL COORDINATE PIPING INSTALLATION WITH ELECTRICAL, HVAC, SPRINKLER & GENERAL CONTRACTORS TO PREVENT INTERFERENCE.
- AT THE END OF THE PROJECT, FLUSH ALL SANITARY LINES UNTIL IT IS CLEAR OF ALL DEBRIS & DEPOSIT IN DRAIN LINE.
- 6 ALL NEW UNDERGROUND SANITARY LINES SHALL BE 4"Ø.
- CONTRACTOR TO ALLOW TRENCHING DOWN TO THE EXISTING SANITARY LINE BELOW FLOOR.
- ALLOW TRENCHING & BACKFILLING FOR NEW UNDERGROUND SANITARY LINES. PROVIDE BACK FILLING & FLOOR RESURFACING AS REQUIRED. PROVIDE TRACING OF EXT'G UNDERGROUND PIPING (SIZES, DEPTH & LOCATIONS) & SCANNING OF FLOOR SLAB AT THE AREA REQUIRED FOR TRENCHING (FOR LOCATING UNDERGROUND ELECTRICAL CONDUITS) PRIOR TO TRENCHING. ALL FLOOR SCANNING SHALL BE REVIEWED & APPROVED BY STRUCTURAL ENGINEER. PLUMBING CONTRACTOR SHALL RETAIN & PAY FOR ALL STRUCTURAL ENGINEERING SERVICES. ALL FLOOR SCANNING SHALL BE BY ONE OF PRP'S APPROVED X-RAYING COMPANIES.
- 9 CONNECT TO EXT'G CW, HW & HW RECIRC PIPING. PLUMBING CONTRACTOR SHALL ARRANGE WITH FACILITIES MANAGEMENT FOR SHUTTING DOWN & FREEZING OF EXT'G MAIN BASEBUILDING COLD WATER, HOT WATER & HOT WATER RE-CIRCULATION LOOP LINES AS REQUIRED TO ALLOW NEW PLUMBING LINE TIE-INS. SHUT DOWN SHALL BE CARRIED OUT DURING OFF-HOURS ON DAY(S) & TIME(S) AS DIRECTED & AGREED UPON BY FACILITIES MANAGEMENT. PROVIDE NEW ISOLATION VALVES AS SHOWN.
- PLUMBING CONTRACTOR TO CONFIRM EXACT LOCATIONS OF EXT'G SHUT-OFF VALVES FOR THE COLD, HOT & HOT WATER RECIRC. PIPING AT THIS LOCATION. SEE NOTE #9 FOR NEW TIE-INS.
- CONTRACTOR SHALL INCLUDE ALL NECESSARY TIME REQUIRED FOR SITE VERIFICATION/INVESTIGATION OF ALL PIPING ROUTING.
- PROVIDE ALL NECESSARY COLD & HOT WATER BRANCH PIPING TO SERVE ALL PLUMBING FIXTURES IN THE TWO SHOWER ROOMS.
- PROVIDE NEW ELECTRONIC TRAP PRIMER VALVE 'TSPV', SIOUX CHIEF #695-ES05 C/W 5-WAY SPLITTER. CONNECT WATER SUPPLY TO THE NEW CW WATER LINE. RUN TWO (2) 1/2"Ø PRIMER LINES TO THE TWO (2) TYPE 'FD' FLOOR DRAINS.

TRAP SEAL PRIMER VALVE SHALL BE HOUSED IN SURFACE MOUNT STEEL ACCESS BOX C/W HINGED METAL ACCESS DOOR SIOUX CHIEF #971-1414 & HUNG FROM CEILING SLAB ABOVE ACCESSIBLE T-BAR CEILING IN LOCKERS ROOM B106. PROVIDE CEILING HUNG BRACKET.

PROVIDE VENT PIPING FOR ALL FLOOR DRAINS SHOWN ON THIS FLOOR PLAN.

SEE NOTE #13 FOR THE PROVISION OF AUTOMATIC TRAP SEAL PRIMER VALVE TO SERVE ALL FLOOR DRAINS SHOWN ON THIS FLOOR PLAN.

- PROVIDE HOT WATER RECIRC. BALANCING VALVE. BALANCE THE HOT WATER RECIRC. FLOW RATE AS DIRECTED BY ENGINEER AT SITE.
- CONTRACTOR TO ALLOW LOCATING OF EXT'G VENT STACK FOR NEW TIE-IN. ALLOW OPENING OF EXT'G WALL FOR NEW TIE-IN AS REQUIRED.
- REPLACE EXT'G CLEANOUT COVER WITH NEW. SIZE OF NEW CLEANOUT COVER TO MATCH WITH EXT'G. FINISH SHALL BE BRUSHED NICKEL FINISH.
- 18 EXT'G STORM LINE TO REMAIN AS-IS.
- 19 INSTALL THIS CLEAN OUT BETWEEN SHOWER STALL & TOILET SUCH THAT IT CAN BE SERVICEABLE.
- 20 INSTALL THIS CLEAN OUT IN THE AISLE BETWEEN TWO ROWS OF LOCKERS SUCH THAT IT CAN BE SERVICEABLE.

# <u>LEGEND</u>

NOTES: EQUIPMENT SHOWN DOTTED [ ---] ARE EXISTING TO BE REMOVED. EQUIPMENT SHOWN [ ----] ARE EXISTING TO REMAIN. EQUIPMENT SHOWN BOLD [ ------] ARE NEW OR RELOCATED.

COLD WATER LINE
HOT WATER LINE

HOT WATER RECIRC LINE

SAN SANITARY LINE
SAN SANITARY LINE (UNDERGROUND)

— — V — — VENT LINE

BALL VALVE

GATE VALVE

BALANCING VALVE

CAP OFF SERVICE

ELBOW, TURNED DOWN AND TURNED UP

—II CO —IIO CO CLEANOUT

**V** P-TRAP

□ FD FLOOR DRAIN□ CO CLEAN OUT

RL DENOTES RELOCATE

CTE DENOTES CONNECT TO EXISTING.

(PROVIDE NEW CONNECTION TO PLUMBING LINE

AS REQUIRED)

DENOTES REFER TO NOTE 2.

Tanco Engine

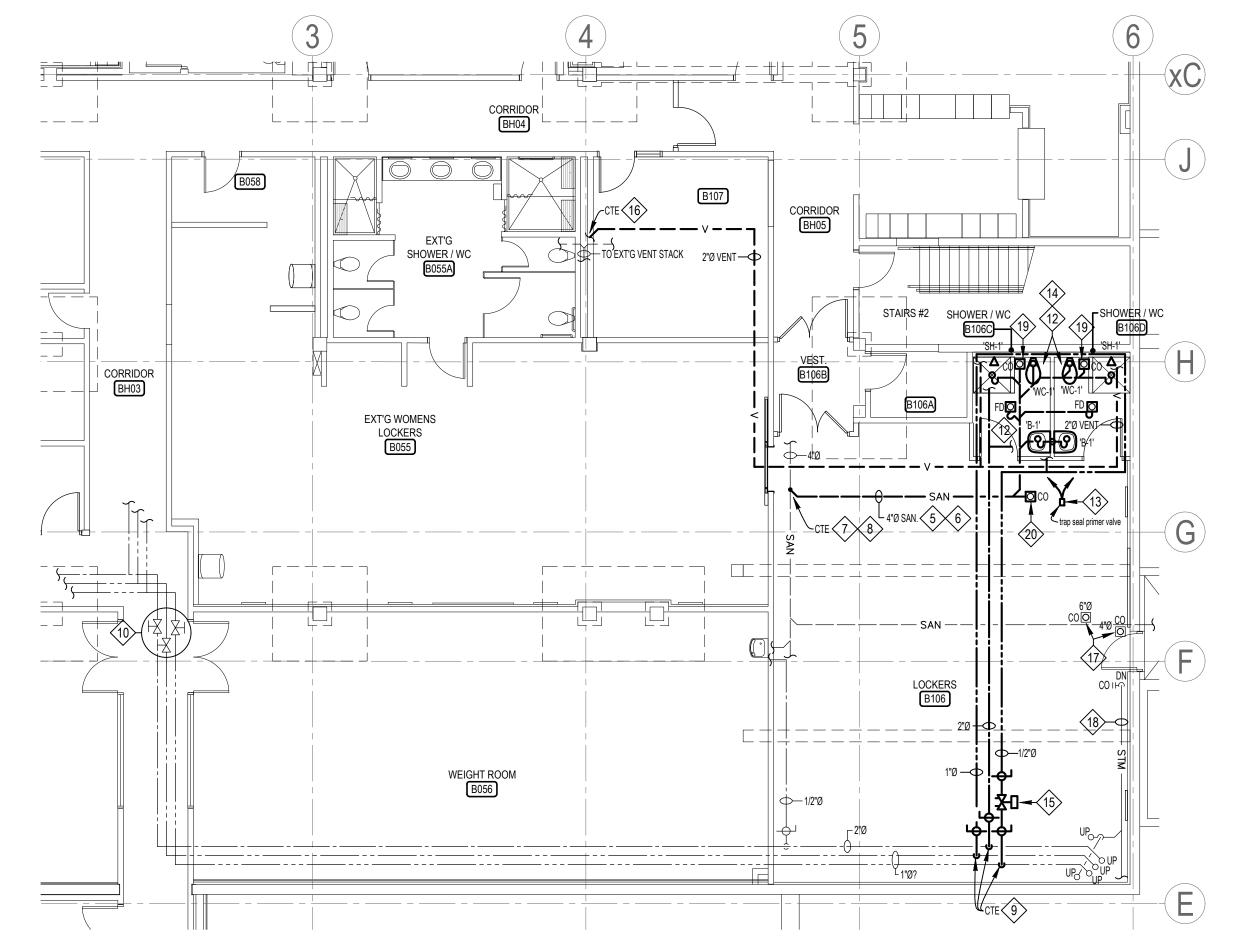
Tanco Engineering Limited
Consulting Engineers

80 Nashdene Road, Suite 213 Scarborough, Ontario M1V 5E4 (416) 321-3022

No. Date Issued or Revised

July 26, 2024 Issued for Permit & Tender

July 4, 2024 Issued for Client Review



PEEL REGIONAL POLICE

BASEMENT

MISSISSAUGA, ON

PLAN - PLUMBING

PARTIAL BASEMENT FLOOR

3030 ERIN MILLS PARKWAY

 SCALE
 AS NOTED
 DATE

 DRAWN BY
 AL/MC
 PROJECT NO.

 DRAWING NO.
 2408

PARTIAL BASEMENT FLOOR PLAN - PLUMBING
SCALE: 1/8"=1'-0"

1 2 3 4 8 11

